

Information Memorandum

FOR SALE

Under Instructions from Tarong Energy



ABB GENERATOR TRANSFORMER 375MVA 21KV-330KV

Expressions of Interest including firm offers to purchase are invited.

C/- Offices of the Agents for the Vendor:-
(neither the highest nor any offer necessarily accepted)

www.grahammesser.com.au

Inspections by prior arrangement, enquiries to:

Graham Messer Industrial Auctioneers & Valuers
(As Agents for the Vendor)
PO Box 5541 Brendale QLD 4500
Tel: +61(0)7 3256 4942
Fax: +61(0)7 3861 5906

Contact: Graham Messer - Mobile: 0417 771 642
Email: graham@grahammesser.com.au

**GRAHAM
MESSER**
INDUSTRIAL
AUCTIONEERS
& VALUERS
PTY LTD

ACN 141 578 725
ABN 5414 1578 725

- ▶ Project Marketers
- ▶ Industrial Auctioneers
- ▶ Valuers
- ▶ Technical Appraisers

▶ 1A 692 Gympie Road,
Chermside, Qld 4032
P.O. Box 5541 Brendale 4500
Phone: 07 3256 4942
Fax: 07 3861 5906
www.grahammesser.com.au

▶ Mobile / Email:
0417 771 642
graham@grahammesser.com.au

▶ Associations:
Auctioneers & Valuers
Association of Australia (inc)
Australian Property Institute

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1.0 Disclaimers

i. The transformer will be sold as it stands with all faults and defects existing therein whether the same are apparent or ascertainable on inspection or not, and with no warranty or representation (express or implied) whatsoever as to the quality or fitness for its purpose. All details are approximate only and are subject to verification on inspection by intending purchasers.

ii. The agents and the Principals for whom they act give notice that whilst every care has been taken in the preparation of this material it is given without any responsibility being accepted and intending purchasers should satisfy themselves as to the truth and accuracy of all information in these particulars by their own searches, inspections, enquiries, advices or as otherwise necessary.

iii. The transformer is offered on an "as-is-where is" basis. Interested parties must conduct their own thorough examination of the equipment, and must not rely on any representation of the vendor or the vendor's agent whether written, verbal or otherwise.

iv. Note: the vendors and the marketing agents acting for the vendors, reserve the right to withdraw any or all of the assets from sale without prior notice.

v. Neither the highest nor any offer necessarily accepted.

2.0 Introduction

Graham Messer Industrial Auctioneers and Valuers, Project Marketers as agents for the vendor, are offering for sale an **ABB Generator Transformer 375MVA 21KV-330KV**.

Details of the offering are as follows:

Year of Manufacture	1997
Serial Number	140491
Frequency	50Hz
Phases	3
Continuous Rating Onan Cooling	200 MVA
ODAF Cooling	380 MVA
High Voltage (Non Uniform Insulation)	330+13 -7 x 1.5%
Low Voltage (Uniform Insulation)	20kV
Vector Group	YNd1
Nominal Impedance (Principal Tap)	12.0% @ 380 MVA
Maximum Temperature Rises Top Oil Winding by Resistance	60/60 degrees C 65/70 degrees C
Cooling	ONAN/ODAF

The assets are located at Tarong Power Station, Nanango, Queensland, Australia.

3.0 Method of Sale

Sale is by Expressions of Interest including firm offers to purchase.

Expressions of Interest including offer should be submitted in the specified format set out in Section 9 of this document and posted in a sealed envelope, clearly marked 'Transformer Expression of Interest'.

**Offers to be forwarded to:
Graham Messer Industrial Auctioneers & Valuers
Agents for the Vendor
PO Box 5541
Brendale QLD 4500**

(neither the highest nor any offer necessarily accepted)

The assets are offered on an "as-is where-is" basis, Ex Tarong Power Station, Nanango, Queensland, Australia.

4.0 Goods and Services Tax (GST)

The assets are offered for sale **exclusive of GST**.

5.0 Enquires and Inspections

Inspections are available by prior arrangement with the marketing agents; Prospective purchasers seeking further information should contact:

Office: Ph: +61(0)7 3256 4942
 Fax: +61(0)7 3861 5906
 Email: graham@grahammesser.com.au

Graham Messer Mobile: 0417 771 642

6.0 Terms of Payment

The successful purchaser may be informed of acceptance of offer by telephone, email, facsimile, or letter.

Upon acceptance of the successful offer, payment of the price offered is to be made in Australian currency and will be paid as follows:

- a) An initial deposit of 10% of the purchase price will be payable within 48 hours from the date of notification of acceptance of the offer by the vendor.
- b) The balance of the purchase price will be due and payable 28 days from and including the date of notification of acceptance of the offer by the vendor.

7.0 Notice to Prospective Purchasers

All persons attending are notified that they will have to operate within the company safety guidelines and comply with the provisions of the Workplace Health and Safety Act (QLD) and the Regulations made pursuant to the Act.

Fully covered footwear must be worn at all times.

Persons attending are advised that they should at all times be accompanied by a company representative.

Any person attending shall be deemed to be there at his or her own risk. No persons shall have any claim against the Vendors, their agents, employees or principals for any injury sustained nor for damages to or loss of property which may occur from any cause whatsoever.

8.0 Removal

Removal of the transformer will be co-coordinated by the marketing agents. Following settlement by the purchaser a strategic plan will be developed to ensure a speedy and smooth removal of assets.

In this regard particular attention is drawn to the provisions of the Workplace Health and Safety Act (QLD) and the Regulations made pursuant to the Act.

9.0 Form of Offer to Purchase

**ABB GENERATOR TRANSFORMER
375MVA 21KV-330KV**

SUBMIT TO: Graham Messer Industrial Auctioneers & Valuers
PO Box 5541
Brendale QLD 4500

* Duly authorised to sign Expressions of Interest and offer for and on behalf of:

State Full Trading Name (Block Letters)

(Address of Proponent) Postcode: _____

(Postal Address of Proponent) Postcode: _____

() _____ () _____ () _____
Telephone No. Mobile No. Facsimile No.

Email

Price Offered excl. GST AU\$ _____

Plus GST *(if applicable)* _____

TOTAL AU\$ _____

Executed by the Proponent

This _____ day of _____ 2012

I/we hereby offer to purchase the above equipment at the price offered.

* Signature Official Position Held

(Name in Block Letters) *(Contact No.)*

APPENDIX 'I' – TRANSFORMER SPECIFICATIONS




ABB Transmission & Distribution

POWER TRANSFORMER DIVISION

TRANSFORMER TDAS.2374 - 1982

RATED MVA HV/LV

	195	375	750
TYPE OF COOLING	DNAN	DDAF	DDAF
MAX. GUARANTEE TEMPERATURE RISE °C	60	60	60

WINDING BY RESISTANCE

	65	70	70
--	----	----	----

IMPEDANCE VOLTAGE % AT 75° C AT 375 MVA

DLTC POSITION No.	1	14	21
H.V. - L.V.	12.54	12.5	12.63

VECTOR GROUP SYMBOL

PHASES

FREQUENCY

-INSULATION LEVELS KV :

LIGHTNING/SWITCHING POWER IMPULSE / IMPULSE / FREQUENCY

MANUFACTURER SERIAL No.

CONTRACT OR SPECIFICATION No.

YEAR OF MANUFACTURE

PROPERTY OF

-COOLING :

2 PUMP	STAR	CONNECTED	3.8	KW EACH	30	LITRES/Sec.
20 FANS	BELTA	CONNECTED	0.6	KW EACH AT	160	m ³ /MIN.

-DIL VOLUME :

16 RADIATORS	490	LITRES EACH	11200	LITRES
COOLER BANK			69500	LITRES
DLTC TOTAL			300	LITRES
DLTC TOTAL			81000	LITRES

-MASSES :

UNTANKING	188000	kg
TRANSPORT	245000	kg
TRANSFORMER ASSEMBLED	290000	kg
COOLER ASSEMBLED	59500	kg

-PRESSURE (MIN/MAX) :

COOLER	0/135	kPa(abs)
MAIN TANK & CONSERVATOR	0/135	kPa(abs)
H.V. BUSHINGS	0/135	kPa(abs)
H.V. BUSHINGS	0/135	kPa(abs)
L.V. BUSHINGS	0/135	kPa(abs)
L.V. BUSHINGS	0/100	kPa(abs)

UNTANKING

TRANSPORT **WITHOUT DIL**

TRANSFORMER ASSEMBLED

COOLER ASSEMBLED

-PRESSURE (MIN/MAX) :

COOLER

MAIN TANK & CONSERVATOR

H.V. BUSHINGS

H.V. BUSHINGS

L.V. BUSHINGS

L.V. BUSHINGS

DLTC

CURRENT SHOWN AT 375 MVA

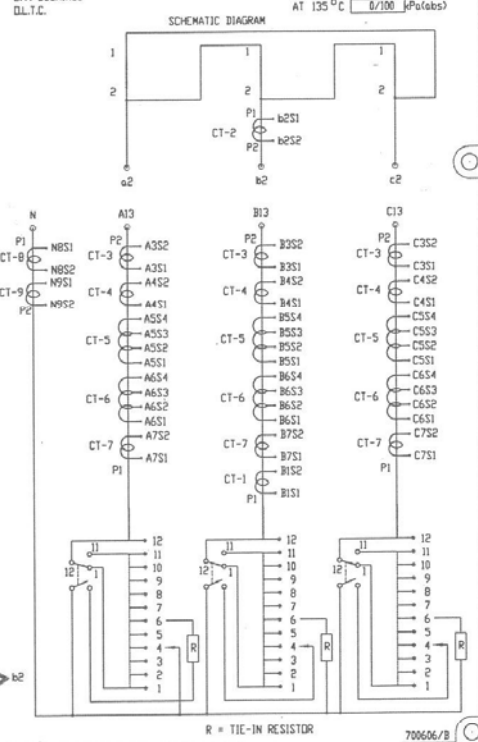
TAP POS. No.	TAPPING CONNECTIONS			CURRENT SHOWN AT 375 MVA	
	12 TO	12 TO	N TO	HIGH VOLTAGE VOLTS	LOW VOLTAGE AMPS
1	11	11	1	384491	56.3
2	11	11	2	379665	57.0
3	11	11	3	374839	57.8
4	11	11	4	370012	58.5
5	11	11	5	365186	59.3
6	11	11	6	360360	60.0
7	11	11	7	355534	60.9
8	11	11	8	350707	61.7
9	11	11	9	345881	62.6
10	11	11	10	341055	63.5
11	11	11	11	336229	64.4
12	11	11	12	331402	65.3
13	1	1	1	326576	66.3
14	1	1	2	321750	67.3
15	1	1	3	316924	68.3
16	1	1	4	312097	69.4
17	1	1	5	307271	70.5
18	1	1	6	302445	71.6
19	1	1	7	297619	72.7
20	1	1	8	292792	73.9
21	1	1	9	287966	75.2

MAXIMUM EXCITATION VOLTAGE = 22kV

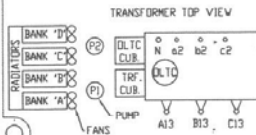
CURRENT TRANSFORMERS TDAS. 1675 - 1986

CT No.	FUNCTION	RATIO (A)	BURDEN/CLASS	S.T.C. (VA/Sec.)
1	H.V. VTI	800/5	1.6 OHMS/2.0	25/2
2	L.V. VTI	11000/5	1.6 OHMS/2.0	
3	PROTECTION	800/1	0.1PL600R5	25/2
4	PROTECTION	800/1	0.1PL600R5	
5	PROTECTION	2400/1600/1000/1	0.1PL1250R1.75 DN 1000/1 0.06PL2000R2.8 DN 1600/1 0.04PL3000R4.2 DN 2400/1	25/2
6	PROTECTION	2400/1600/1000/1	0.06PL2000R2.8 DN 1600/1 0.04PL3000R4.2 DN 2400/1	
7	MEASURING	1000/1	20VA/0.2W	25/2
8	PROTECTION	800/1	0.1PL550R5	
9	PROTECTION	800/1	5P500F 20	

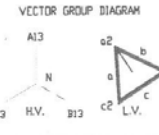
SCHMATIC DIAGRAM



TRANSFORMER TOP VIEW



VECTOR GROUP DIAGRAM



R = TIE-IN RESISTOR

709606/B

APPENDIX 'II' – IMAGES



