

SOUTHERN MALLEE DISTRICT COUNCIL

12

CONFIDENTIAL MINUTES

OF THE ORDINARY MEETING HELD ON WEDNESDAY 13TH APRIL 2011

110411

MANAGER ENVIRONMENT AND PLANNING REPORT

9. Solar Panel Proposal for Council Buildings

In accordance with the March Council meeting Council has received the solar quotes from Hoeffy Steel - Gotta Getta Group and Zen Commercial Energy Systems.

In accordance with Section 83(5) I indicate that if Council so determines the item may be considered in confidence pursuant to Section 90(2) and 90(3) (d)(i) "commercial information of a confidential nature (not being a trade secret) the disclosure of which - could reasonably be expected to prejudice the commercial position of the person who supplied the information, or to confer a commercial advantage on a third party"

Moved Cr. Dunsford/Seconded Cr. Pfeiffer that-

a) pursuant to Section 90(2) of the Local Government Act, 1999, an order be made that the public, except the Chief Executive Officer, Manger Environment and Planning, Mike Penhall Consultant and Minute Secretary be excluded from attendance at the meeting for Council to discuss this matter in confidence.

b) That Council is satisfied that it is necessary that the public be excluded to enable the Council to consider the item at the meeting on the following grounds; 90(3) (d)(i) "commercial information of a confidential nature (not being a trade secret) the disclosure of which - could reasonably be expected to prejudice the commercial position of the person who supplied the information, or to confer a commercial advantage on a third party"

c) The Council is satisfied that on this basis the principle that the meeting be conducted in a place open to the public has been outweighed by the need to keep the information and discussion confidential.

CARRIED.

Moved Cr. Pfeiffer/Seconded Cr. Sexton that the quotes from Hoeffy Steel - Gotta Getta Group and Zen Commercial Energy Systems be received (attached as Appendix D).

CARRIED.

BACKGROUND.

As a result of a request from Council research was undertaken to identify appropriate Solar Energy experts with a view to reducing Councils carbon footprint in this field. Members will recall the report to the March regular meeting of Council where Russell Schrale of Zen Home Energy Systems presented an information presentation in respect to their role with the South Australian Local Government Association. The Zen Solar Councils Community Program being run in association with the Local Government Association of SA delivers the following benefits;

- Fostering local industry;
- Providing local employment;
- Creating a career path for students;
- Offering a Zen Scholarship Program;
- Providing solar energy education;
- Assisting Councils to develop community resources.

Released

Jan 2015

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9. Solar Panel Proposal for Council Buildings – Continued

STATUTORY REQUIREMENTS.

Members would be aware that subject to Schedule 3 of the Development Regulations 2008 as amended the installation of solar photovoltaic panels is defined as;

designated photovoltaic system means—

- (a) a photovoltaic system comprising solar photovoltaic panels that have a total weight not exceeding 100 kilograms; or
- (b) a photovoltaic system comprising solar photovoltaic panels that have a total weight exceeding 100 kilograms if—
 - (i) the weight load is distributed so that it does not exceed 100 kilograms at any 1 point of attachment to the roof; and
 - (ii) the panels (and any associated components) do not overhang any part of the roof; and
 - (iii) the panels are fitted parallel to the roof with the underside surface of the panels being not more than 100 millimetres above the surface of the roof; and
 - (iv) the panels are installed by a person who holds an accreditation under a scheme recognised by the Minister for the purposes of this paragraph.

Provided the above criteria is not exceeded then the proposal to install such solar panels is not development. Where the proposal is development then specific criteria with respect to the proposal its fixing and design criteria must be submitted to Council for development assessment purposes.

POLICY IMPLICATIONS.

Nil

FINANCIAL IMPLICATIONS.

Accordingly should Council proceed with the proposal to install any such solar system on specified community buildings the costs associated for the purchase, installation and development assessment process if required will need to be factored into the coming budget constraints.

STRATEGIC IMPLICATIONS.

Like many Local Government Authorities the need to reduce Council's carbon footprint and to reduce energy consumption with the view of providing a leadership role in regards to minimizing impacts on the environment. Such a leadership role encourages community participation and ensures future generations enjoy a better future.

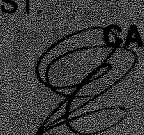
OFFICERS COMMENTS.

As members would be aware tenders were sought through the selective tendering process resulting in the following quotes being received (Attached as Appendix D). While it should be noted that each tender submission reflects a different design the overall outcome will result in the installation of solar systems to the capacity of 20 kilowatts.

It should be noted that the proposed panels are designed in Germany and assembled in China.

Moved Cr. Dunsford/Seconded Cr. Pfeiffer that Council determine to proceed with the proposal in accordance with Quote number SM1032011 (Zen Solar) being 2 x Zen 10KW roof mounted systems for \$65,712 ex GST.

CARRIED.



CONFIDENTIAL MINUTES - COUNCIL MEETING 13/04/2011

110411

MANAGER ENVIRONMENT AND PLANNING REPORT CONTINUED

9. Solar Panel Proposal for Council Buildings - Continued

Moved Cr. Dunsford/Seconded Cr. Pfeiffer that under the provisions of the Section 91(7) of the Local Government Act, 1999 having considered this agenda item in confidence under Section 90 (2) and (3)(d)(i) of Act the Council orders that the details of Hoffey Steel - Gotta Getta Group offer be retained in confidence until the 14th December 2011 Council meeting and that this order be reviewed every 12 months.

CARRIED.

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APPENDIX D



Harc,

Thank you for choosing The Gotta Getta Group and for the opportunity to tender for your solar requirements at the LAMEROO WORKS DEPOT.

The reason I have chosen this site is due to it's perfect north facing aspect, roof space and the fact that the site is rarely used all add up to maximize the return on your investment which is detailed below.

Further to our discussion and on site inspection we have quoted as follows:

SOLAR SYSTEM 19.76 KW (104 panels) :

- > Solar system to be installed, 190w Mono Crystalline panels.
- > 2 x Sunny Mini Central 11 kw inverters.
- > All access, travel, installation included.
- > Smart meter to be installed at clients expense, roughly \$650.00 (GGG to organise with ETSA)
- > Any further upgrades of power box, circuits if required to meet Australian standards at clients expense.
- > 25 Year power output warranty.

INVESTMENT 19.76 KW : \$83,500.00

PROJECTION:

- > Annual yield from system approximately 31000 KW

If none of this power was used and sold back to your power provider.

31,000 KW X \$0.50 (Depending on what your provider will pay you per kilowatt, check your provider for details, some may pay up to \$0.60 for first 10 kw then less 20% for second 10 kw)

31,000 X 0.50

= \$15,500.00 credit.

\$83,500.00 / \$15,500.00

= 5.4 years system payback time.

(NB. All estimates are approximate but based on around 5 hours of sunlight on average)



A handwritten signature in black ink, located in the bottom right corner of the page.



Our price includes supply & delivery of material, installation, rubbish removal and is G.S.T Inclusive. Extra detail will be set out on Work Order if you decide to move forward and invest with The Gotta Getta Group.

The Gotta Getta Group is a Quality Assured company that proudly displays the five tick merit. Our family business continues to grow whilst servicing the home improvement needs of South Australians for the past twenty five years.

Our company provides quality products and services that meet our customer's satisfaction. Please don't hesitate to contact me on 0438220975 if you have any questions or queries.

Yours faithfully,

Trevor Hasiuk

HOME IMPROVEMENT CONSULTANT



A handwritten signature in black ink, appearing to be 'Trevor Hasiuk', is located in the bottom right corner of the page.

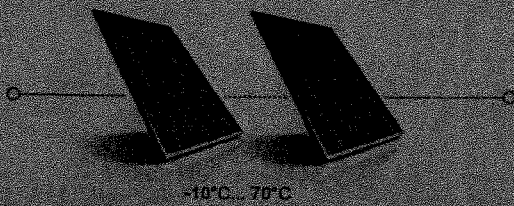
Contact Information

Ph: 138 GGG (138 444)

Fax: (08) 8340 4122

email: patrick@cottliffeandgreen.com.au

System overview (Australia / Adelaide)



String A

ET Solar *User*
 ET-M572190 190W
 Module x String:
 13 x 4
 Inclination / Azimuth:
 30° / 180°



Inverter

2 x Sunny Mini Central 11000TL
 Max. efficiency: 98.1 %
 European standard efficiency: 97.7 %
 Max. AC power: 11.00 kW
 Max. DC power : 11.40 kW

Technical data

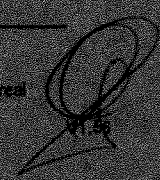
Nominal power of PV-generator: 19.76 kW
 Total number of modules: 104
 Total surface of PV-generator: 135.2 m²
 Number of inverters: 2
 Max. DC power : 22.80 kW
 max. AC-Active power : 22.00 kW
 Inverter effectiveness: 96.8 %

Nominal power ratio: 115 %
 Yearly en. yield (approx.) * : 30858.3 kWh
 Energy usability factor: 100.0 %
 Performance Ratio (approx.) * : 84 %
 Spec. energy yield (approx.) * : 1562 kWh/kWp
 Cable losses (% in PV-Energy): Not considered

Notes: 20 kilowatt solar photovoltaic system
 104 monocrystalline solar panels & 2 x German SMA SMC 11000 inverters
 Suit tin pitched roof

Signature _____

* Important note: The calculation of the yield is based on estimated values and mathematical models. SMA is in no case liable for the real yield, which can e.g. deviate due to contamination or different efficiencies of the modules.



Check list:

Project file: No file has bin saved with this configuration yet.

System overview

Inverter: 2 x Sunny Mini Central 11000TL

Location: Australia / Adelaide

PV-module temperatures

Minimum PV temperature: -10°C

Design temperature: 50°C

Maximum PV temperature: 70°C

PV module

ET Solar "Usar"

ET-M572190 190W

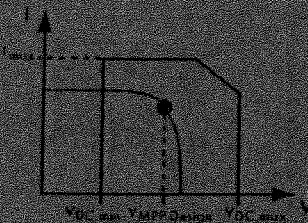
Angle of inclination: 30° (Optimized)

Azimuth angle: 180°

Technical data

Nominal power of PV-generator	19.76 kW
Total surface of PV-generator	135.2 m ²
Number of inverters	2
Max. DC power	22.80 kW
max. AC-Active power	22.00 kW
Grid voltage	240 V
Total number of modules	104
Nominal power ratio	115 % (ok)
String A:	
String power (input)	9.88 kW
Power ratio (input)	100 %
String MPP voltage at 15°C	507 V (ok)
String MPP voltage at 50°C	427 V (ok)
String MPP voltage at 70°C	382 V (ok)
min. MPP voltage, set grid voltage: 240 V	347 V
String open circuit voltage at -10°C	652 V (ok)
max. allowed DC voltage (Inv)	700 V
Max. current of PV-generator	20.4 A (ok)
Max. DC current permitted	34.0 A
Number of strings (5 inputs)	4
Number of modules per string min=12, max=13	10

DC voltage range



PV generator configuration and inverter type are compatible nominal power behavior (max. DC power inverter/PV-peak power) is in the standard range (100% - 120%).

RECS

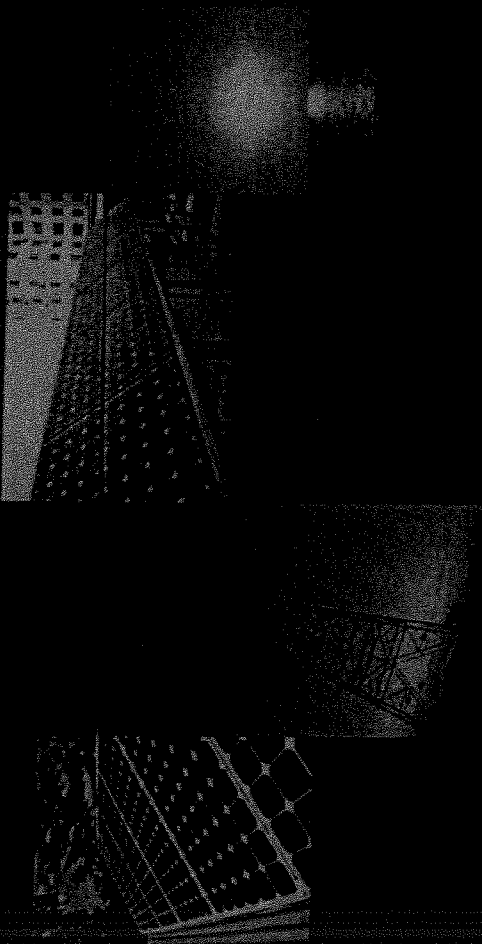
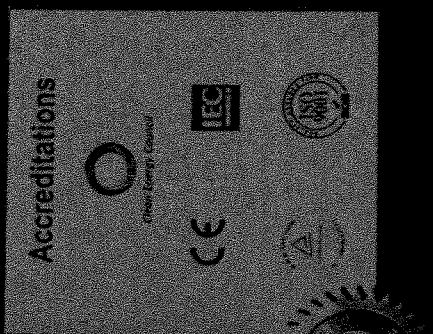
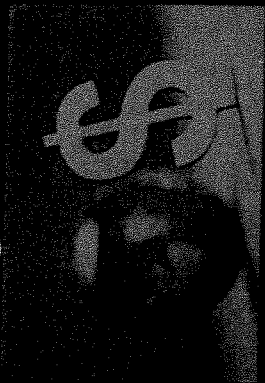
Renewable Energy Certificates or RECs are a form of electronic currency, which can be created following the installation of a complying renewable energy system.

Each REC has a \$ value that can vary daily according to market demand. The Ozroll group also has established a REC trading company which is licensed to create, trade and sell RECs on the market.

Feed-in Tariff (FIT)

A feed-in tariff (FIT) is a payment to electricity customers who generate power from renewable sources and feed some of that power back into the electricity grid. The payment - from your electricity company - rewards consumers and business who install renewable energy generators such as Ozroll rooftop solar photovoltaic (PV) systems.

Check with local government as Feed-in Tariffs may vary between states and territories.



SOLAR PHOTOVOLTAIC

ENERGY EFFICIENT SOLUTIONS



For more information on Ozroll Solar Photovoltaic
www.ozroll.com.au
☎ 1800 OZROLL (687655) OR +61 8 6368 0263

Dealer Details



OZROLL Industries

Ozroll Industries is a privately owned Australian company that has achieved ongoing success and continues to grow and develop to remain a market leader in many fields.

We provide, manufacture and design an extensive range of world class products, sure to suit any home owner or business operator. From inside and out, top to bottom, we have everything covered including:

- Roofing Products
- Roller Shutters
- Garage Doors
- Solar Energy
- Window Coverings
- Louvre Shutters
- Rendering
- Solar Hot Water

Our emphasis is on providing our customers with the best possible quality and service, therefore from point of order to final delivery you can be assured of our utmost attention and ongoing commitment.

With electricity prices rising a conversion to a solar energy system can save you money on your electricity bill each year! In addition, further savings can be made with the introduction of Government Rebates and Renewable Energy Certificates (RECs).

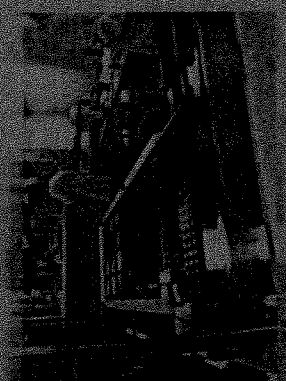
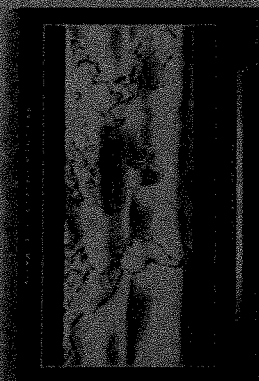
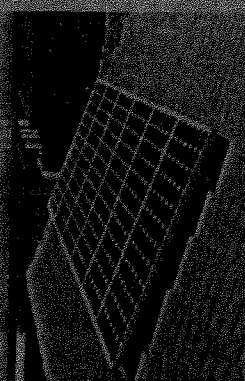
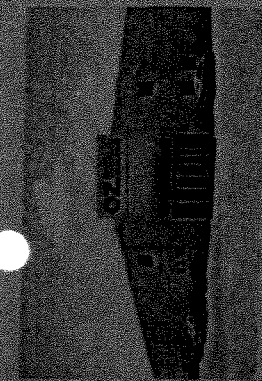
Environmental Benefits = COST SAVINGS \$\$\$

Installing solar technology reduces the amount of fossil-fuelled electricity you need to purchase from the electricity grid. This significantly reduces the amount of harmful greenhouse gas emissions AND saves you money.

- ✓ Solar Energy helps reduce your carbon footprint as it is a clean energy alternative.
- ✓ Solar Energy does not contribute to global warming, acid rain or smog.
- ✓ Solar Power therefore actively contributes to the decrease of harmful greenhouse gas emissions
- ✓ Solar energy produces no waste and no pollution
- ✓ Solar power is quiet.

OZROLL Solar Photovoltaic System

Ozroll Industries has a full range of solar systems designed to power you, whatever your needs may be. With a system to suit every Australian family and business. Ozroll Industries use only advanced and proven manufacturing processes which provides only the very best in the supply of monitoring digital panels, inverters and other solar components. If you live in an area not serviced by the main electricity grid, Ozroll Industries may also be able to offer you an Off Grid System.



How does Solar Photovoltaics work?

1. Sunlight hits the PHOTOVOLTAIC PANEL array and is absorbed by the silicon in the cells.
2. The electrons produced create a direct current (DC) and run from the solar array into an INVERTER, which converts the electricity into 240v alternating current (AC), and it is the exact same type of power that you currently receive from the grid.
3. Ozroll Industries solar panels give you the power to effectively slow step 0, even send your utility meter backwards. Obviously, this depends on the size of your system, the time of day and your power requirements.
4. The AC power is used to run everyday electrical items.
5. Excess power is fed back into the grid particularly if a feed-in tariff applies in your area, this is actually making money for you.

Why choose OZROLL Solar?

Ozroll only supply the highest quality monocrystalline solar cells which are cut from large single crystal ingots grown from molten silicone. They are joined together with solder on the front surfaces to provide electrical connection points using fine soldering methods.

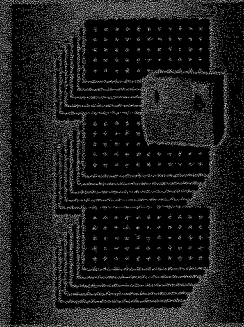
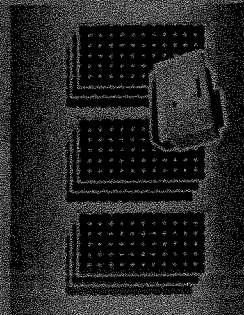
- ✓ There are 72 individual cells in each Ozroll solar panel
- ✓ All panels are IEC61215, and IEC61730 internationally accredited
- ✓ All grid inverters are AS4777 accredited
- ✓ A hardened glass cover, a polymer EVA sheet and a special back layer is added to provide strength and moisture protection to the panel which is laminated together to form the finished Solar panel
- ✓ Unique robust aluminium frame which is built around the panels for added protection and structural integrity

OZROLL Solar Products

Residential System
1KW - 3KW

Commercial System
3KW - 10KW

Solar Farm System
10KW - 10MW



Quotation

Quotation #:	SM1032011
Date:	1/03/2011
Customer Ref:	ZEN Norwood
Customer Name:	Harc Wordsworth Lameroo Office Southern Mallee
Customer Address:	Railway Tce. North Lameroo SA 5302

QUANTITY	DESCRIPTION	UNIT PRICE (Ex GST)	TOTAL (Inc GST)
	Site address: Lot 2, Pt Sec 92, Enterprise Road, LAMEROO		
System 1	ZEN 7.4kW Roof Mounted System	\$43,864	\$48,250
	2 4000TL inverters		
40	185watt Monocrystalline high efficiency "Black" panels		
1	Industrial roof mounting system		
1	Custom AC/DC Isolating system		
1	DC Cable		
1	AC Cable		
5	Sub-boards and breakers		
1	Occupational Health & Safety Signage		
1 set	Connector pairs		
2	Padlocks for TL's		
1	Supply and installation		
	SubTOTAL		\$48,250
277	less RECS rebate @ \$36 each	\$9,972.00	\$10,969
	less Solar Councils Discount		\$4,500
	TOTAL		\$32,781
	Carbon offset by system (Annually)	12.29	

This quote includes the allocation of Renewable Energy Certificates (REC's).
This quote is valid for 30 days and includes all ZEN Standard Terms and Conditions attached.

QUANTITY	DESCRIPTION	UNIT PRICE (Ex GST)	TOTAL (Inc GST)
	Site address: Lot 2, Pt Sec 92, Enterprise Road, LAMEROO		
System 2	ZEN 10kW Roof Mounted System	\$44,916	\$49,408
2	5000TL inverters		
55	185watt Monocrystalline high efficiency "Black" panels		
1	Industrial roof mounting system		
1	Custom AC/DC isolating system		
1	DC Cable		
1	AC Cable		
6	Sub-boards and breakers		
1	Occupational Health & Safety Signage		
2 set	Connector pairs		
2	Padlocks for TL's		
1	Supply and installation		
	SubTOTAL		\$49,408
335	less RECS rebate @ \$36 each	\$12,060.00	\$13,266
	TOTAL		\$36,142
	Carbon offset by system (Annually)	16.61	
	Site address: Pinnaroo Visitor Centre		
System 1	ZEN 7.4kW Roof Mounted System	\$43,864	\$48,250
2	4000TL inverters		
40	185watt Monocrystalline high efficiency "Black" panels		
1	Industrial roof mounting system		
1	Custom AC/DC isolating system		
1	DC Cable		
1	AC Cable		
5	Sub-boards and breakers		
1	Occupational Health & Safety Signage		
1 set	Connector pairs		
2	Padlocks for TL's		
1	Supply and installation		
	SubTOTAL		\$48,250
277	less RECS rebate @ \$36 each	\$9,972.00	\$10,969
	less Solar Councils Discount		\$4,500
	TOTAL		\$32,781
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2 set	Connector pairs		
2	Padlocks for TL's		
1	Supply and installation		
	SubTOTAL		\$49,408
335	less RECS rebate @ \$36 each	\$12,060	\$13,266
	TOTAL		\$36,142
	Carbon offset by system (Annually)	16.61	

Renewable Energy Certificates (REC'S)

REC's are issued by the Federal Government under the Renewable Energy (Electricity) Act 2000 and are attached to every purchase of a renewable energy generating system such as a solar system. You can find out more information about REC's at <http://www.orer.gov.au/>.

The REC's scheme, also known as the Solar Credits Scheme, allocates 155 REC's for the very first 1.5kW of power a system generates. Additional credits are then allocated at a ratio of 1:1. ZEN Commercial is able to use REC's allocated to solar systems to offer customers a discount on the total system price, as reflected in the quote.

Warranties

ZEN only uses Tier 1, ISO Quality Accredited suppliers and focuses on investing in the long term future of our company and supplier relationships.

ZEN Commercial provides the following warranties:

WARRANTY CATEGORY	COVERAGE
Inverter	5 years
Solar Panels	90% efficiency guaranteed for 12 years 80% efficiency guaranteed for 25 years Defects in materials and workmanship guaranteed for 5 years
Installation	2 years covering all defects in materials and workmanship. Warranty will extend in compliance with relevant State Government regulation.

Procedure & Payments

If you would like to accept this quote then please forward a purchase order indicate which option best fits your requirements and forward an order to us. Alternatively we can send through an invoice for the deposit together with all bank details.

A deposit of 10% of the total system cost is due on acceptance of this quotation with the balance due on day of completion of the project. Alternative progress payment instalments can also be negotiated.

TERMS & CONDITIONS

In the following terms and conditions the "Company" shall mean ZEN Technologies (Power and Energy) Pty Ltd (ABN 82 110 224 005) and its related bodies corporate within the meaning of Section 50 of the Corporations Act and the "Customer" shall mean the person or entity purchasing the goods and or services the subject of these terms and conditions.

The following terms and conditions govern the sale of the goods and the performance of services by the Company.

1. This offer is made on the basis that these conditions must apply in conjunction with any specific conditions detailed in the quote supplied. Any variation or alteration to these conditions must be agreed in writing with the Company.
2. In the event that the Customer's application is unsuccessful for any "Necessary Council Approval" the deposit is fully refundable. Council approval is usually only required for Heritage Homes or larger "Commercial or Tracker" style installations.
3. Renewable Energy Certificates are applied for and retained by the Company, and any value attributable to those certificates is incorporated within the amount payable by the Customer.
4. All prices are strictly based on the quantity indicated in the tender drawings and or scope of works. The Company reserve the right to change any rate or price should the quantity or scope of works change due to factors out of our control. In addition any works completed over the completed distance or scope will be charged out as a variation on a quantity basis.
5. The Company will not be liable for liquidated damages, retention money, security deposits or delays in completing the project due to an unexpected event.
6. The Company shall not be liable for any delays, loss, damage or injury by reason of any event beyond its control without limiting the generality of the above event including industrial disputes, the unavailability of equipment and materials, fire, flood, inclement weather, machinery breakdowns, civil disturbances, act of God or Government action.
7. Any delays caused to the Company by the Customer or its representative will incur a charge at the Company's applicable rate per hour of down time.
8. The Quotation is based on standard soil conditions; if any other ground conditions are encountered a variation will be sought. Variations will be based on soil condition reports being done and the Customer will be consulted prior to commencement.
9. The Quotation from the Company is made on the basis that agreed staged payment (progress payments) will be made during the course of the project.
10. If at any stage works are not able to be completed due to unforeseen circumstances beyond the control of the Company, then all monies owed for the works completed to that stage will be due and payable to the Company by the Customer.
11. Unless otherwise stated, the quotation from the Company is based on normal working hours, Monday to Friday. Any works requested by the Customer, out of hours or on weekends and public holidays will attract additional charges.
12. The Quotation is valid for 30days from Issue date.
13. The Company will not be liable for any additional lifting, hauling, crane's, scissor lifts, cherry pickers or any other device unless stated in the attached quote or agreed on before commencing the works.

14. The Customer acknowledges and accepts that the performance of the goods supplied by the Company is contingent upon a clear view of the sun and correct elevation. It is the responsibility of the Customer to ensure that shading of the goods is, and continues to be, minimised (include, if necessary, the removal or pruning of any shade causing trees and if the elevation is outside of the optimum 30° pitch there will be a reduced energy yield).
15. Risk in the goods passes to the Customer upon delivery. The Company retains all title to all goods supplied by the Company until full payment is received. The Customer grants an unrestricted access to the Company to enter its premises to collect any goods which have been delivered by the Company but have not been paid for by the Customer in accordance with these terms and conditions.
16. To the fullest extent permitted by law, the Company's liability for breach of any implied warranty or condition which cannot be excluded is limited at the option of the Company to:
 - in the case of services supplied or offered by the Company (a) the supply of the services again, or (b) the payment of the cost of having services supplied again; and
 - in the case of goods supplied by the Company, (c) the replacement of the goods or the supply of equivalent goods, (d) the repair of such goods, (e) the payment of the cost of replacing the goods or acquiring equivalent goods, or (f) the payment of the cost of having the goods repaired.
17. These terms and conditions shall be governed by the laws of South Australia. The parties irrevocably submit to the nonexclusive jurisdiction of the courts of South Australia.

These conditions will become binding on acceptance of our offer.
I hereby agree to the above mentioned Terms and Conditions.

Customer Name:

Signature:

Date:

61
