



TÜV Rheinland (India) Pvt. Ltd.

Plot No.17B, Electronic City Phase II Industrial Area, Hosur Road,
Bangalore - 560 100, Karnataka, India.

2016-2017

**TEST REPORT
ON
PV WATER PUMPING SYSTEM**

Sample Number: 1803144824-21-22-23

Manufactured by

Submitted by: M/s Solar Idea Pvt. Ltd.

PV Array : M/s Akshaya Solar Power(I) Pvt.Ltd.

Pump System: M/s C.R.I. Pumps Pvt. Ltd.

NOTE

This is a report on measurements carried out on PV WATER PUMPING SYSTEM (sample number 1803144824-21-22-23) submitted at TÜV Rheinland (India) Pvt. Ltd. as per specifications stipulated by the JNNSM, MNRE 2015-16. The data reported in this TEST REPORT are valid at the time of and under the stipulated conditions of measurement and the test results are applicable to those items of product which have been tested and do not apply to other products even though declared to be identical. The data contents in this report do not constitute a qualification certificate under any set of specifications. TÜV Rheinland does not accept any liability for any consequences including commercial or otherwise arising out of the utilization of the information contained in this report.

The Test Report, if reproduced for any purpose, commercial or otherwise, should be reproduced in full. The contents of the report can be published only after a written approval from the Test Laboratory. This report consists of 12 pages.

K. Manjunath
Tested & Prepared by:
Manjunath.K /Sr. Engineer

Kamalaksha CS
Approved by:
Kamalaksha CS / Sr. Manager



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PV WATER PUMPING SYSTEM

M/s Solar Idea Pvt. Ltd.

Plot No:126, H.No:8-2-277/A/7, Road No-2, Banjara Hills, Hyderabad 500034 Telangana, India

S.N.	Test Description	Requirements as per JNNSM, MNRE Specifications 2015-16.	Observations	Remarks
1.	<u>PV Module/ Array</u> i. Array Capacity at STC ii. Fabrication of PV Modules iii. Type of modules iv. Peak power output of SPV module under STC. v. Efficiency vi. Fill Factor	Should be between 200 Wp and 10,000 Wp under STC. Modules should be IEC 61215 & IEC 61730 Part I & Part-II, qualified, properly laminated and hermetically sealed. Crystalline Silicon solar cell module. Peak wattage of each Module should be more than 125 Wp Should be more than 14% Should be more than 70 %	5014.21 Wp Yes, properly laminated. IEC 61215& IEC 61730 qualified Multi / Mono Crystalline Silicon modules. Manufactured by: M/s. Akshaya Solar Power(I) Pvt.Ltd. Nominal module wattage <u>250.71</u> Wp. Module Efficiency: 15.33% Fill Factor: 74.75%	Array capacity is as per page 4 of this report Module Mismatch= 0.49%
2.	<u>Motor and Pump Details:</u> i. Make, model & Serial No. ii. Type of pump iii. Stainless steel iv. Operation v. MODEL specifications	 Shallow well or Deep well pump Recommended & required DC/BLDC/PMDC/AC Solar Deep Well (Submersible) Pumping System, Annexure – II, Model-I to Model XIV	M/s C.R.I. Pumps Pvt. Ltd. <u>Pump:</u> Model No: S6S-14/10 Serial No: 10216E22847 <u>Motor:</u> Model No: SSM60/5 Serial No: 10216E22847 <u>Inverter make/ VFD:</u> M/s Delta India Electronics Pvt. Ltd. Model No: VFD055E43A Serial No: 055E43A7W15480496 Deep well pump Provided AC Deep Well Pumping System: Model-VII	 Declaration for Stainless Steel, Refer Page.12

K. Manjunath

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PV WATER PUMPING SYSTEM

M/s Solar Idea Pvt. Ltd.

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S.N.	Test Description	Requirements as per JNNSM, MNRE Specifications 2015-16.	Observations	Remarks
3.	Testing of complete SPV pump			
	i. Output of water per day/per watt at Irradiation of 7.15 Kwh/sq.m. at a total head of 70.0 meters.	Not less than 13 liters/Wp	13.76 ± 0.27 liters/Wp	
	ii. Average Output of water per day at Irradiation of 7.15 Kwh/sq.m. at a total head of 70.0 meters	Not less than 62,400 liters/day	69,000 liters/day	
	iii. Max. total dynamic head	100 meters	100 meters	
4.	Tracking system:	Continuous, Manual, Passive or Electronic tracking are permitted.	Manual	
5.	Protections			
	a. Against dry running	Required	Provided	
	b. Against wind speed	Should withstand speeds up to 150 Kms/hr.	Not tested	
	c. Against lightening, hail and storm.	Required	Not tested	
	d. Against open circuit, short circuit & reverse polarity.	Required	Provided	
	e. VFD / Inverter must have IP54	Required	Provided	
6.	Others			
	a. Design of PV array	Should be modular for easy replacement.	Modular	
	b. DC/AC switch	Required	Provided	
	c. Connection cable	Required	Provided	
	d. Data Logger & Remote Monitoring Mechanism	Required	Provided	

Refer IP 54
Test Report No.:
03 2337,SITARC-
Coimbatore, from
page.7 to 11.

Comments: The water pumping System was tested at TUV Rheinland lab with total head of 70 meters and the radiation data (Dawn to Dusk), Array output was simulated through Solar Array Simulator up to 7.15 KWh/m2. Water pumping system sample meets the requirements of JNNSM, MNRE specifications for 2015-2016.



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Peak Wattages of Individual PV Modules are tested after pre-conditioning, exposed to minimum of 5.5kWhr/m² tested at TÜV Rheinland (India) Pvt. Ltd., Bangalore.

Module-ID	Pmax[W]	Vmp[V]	Imp[A]	Voc[V]	Isc[A]	FF %	C.Eff %	M.Eff %
07189-165120240	251.933	30.484	8.264	37.753	8.940	74.643	17.254	15.414
07176-165120240	250.268	30.261	8.270	37.699	8.855	74.965	17.140	15.312
07181-165120240	250.949	30.294	8.284	37.866	8.891	74.542	17.186	15.353
07179-165120240	251.112	30.440	8.249	37.726	8.875	75.000	17.198	15.363
07185-165120240	250.939	30.389	8.258	37.877	8.854	74.825	17.186	15.353
07182-165120240	249.441	30.388	8.209	37.758	8.817	74.925	17.083	15.261
07177-165120240	250.437	30.326	8.258	37.777	8.871	74.729	17.151	15.322
07178-165120240	249.865	30.372	8.227	37.790	8.907	74.235	17.112	15.287
07190-165120240	249.965	30.441	8.211	37.826	8.850	74.668	17.119	15.293
07180-165120240	251.618	30.588	8.226	37.867	8.866	74.945	17.232	15.394
07192-165120240	250.870	30.366	8.262	37.780	8.866	74.892	17.181	15.349
07187-165120240	250.572	30.080	8.330	37.898	8.880	74.459	17.161	15.330
07193-165120240	251.164	30.386	8.266	37.826	8.862	74.928	17.201	15.366
07174-165120240	250.922	30.352	8.267	37.770	8.866	74.930	17.185	15.352
07184-165120240	251.089	30.389	8.263	37.868	8.849	74.934	17.196	15.362
07175-165120240	250.842	30.320	2.273	37.767	8.863	74.938	17.179	15.347
07191-165120240	251.003	30.281	8.289	37.774	8.884	74.801	17.190	15.357
07188-165120240	251.209	30.248	8.305	37.834	8.910	74.518	17.204	15.369
07186-165120240	250.008	30.383	8.228	37.721	8.896	74.507	17.122	15.296
07183-165120240	250.011	30.197	8.279	37.733	8.880	74.613	17.122	15.296

Qty. of Modules = 20 Nos.

Total P_{max} = 5014.21 Wp

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Kamalaksha CS

Approved by:
Kamalaksha CS / Sr. Manager



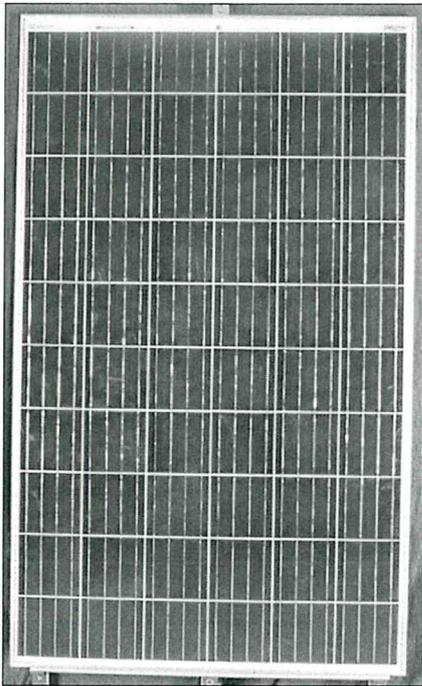
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PV WATER PUMPING SYSTEM

M/s Solar Idea Pvt. Ltd.

Plot No:126, H.No:8-2-277/A/7, Road No-2, Banjara Hills, Hyderabad 500034 Telangana, India

Photo document



AKSHAYA
Source of Green Energy

UL
IEC 61215 & 61730-1 & 2, 61701
Certified Company

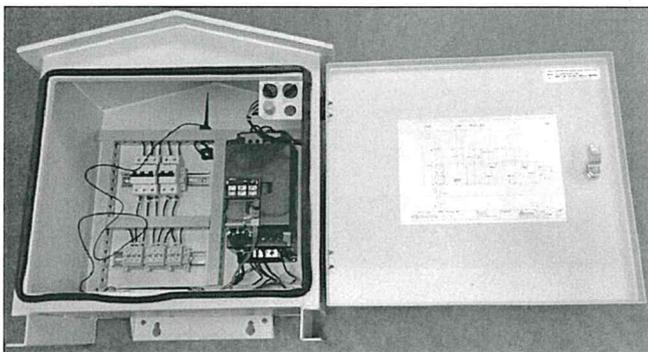
Maximum Power (Pmax) : 240 W
Voltage at Max. Power (Vmp) : 28.80 V
Current at Max. Power (Imp) : 8.33 A
Open Circuit Voltage (Voc) : 36.60 V
Short Circuit Current (Isc) : 9.00 A
Tolerance : ± 5%

Specifications are at STC :
1000W/m² Insolation, AM1.5, Cell Temp 25°C

WARNING
Electrical Hazard
The unit produces electricity when exposed to light.
Cover the glass, before opening terminal box.
Don't disconnect the plugs under load.

Manufactured by
AKSHAYA SOLAR POWER (INDIA) PVT. LTD.
An ISO 9001 : 2008 Certified Company
Plot No. 60/C/E, Phase - 1, IDA, Jeedimella, Hyderabad - 500 055.
India. Tel : +91-40-40064523, Fax : +91-40-40064524
E-mail : raj@akshayasolar.com, www.akshayasolar.com

SPV Module



MODEL: VFD055E43A
INPUT: 3PH 380~480V 50/60Hz 14A
OUTPUT: 3PH 0~480V 13A 9.9KVA
5.5kW/7.5HP
FREQUENCY RANGE: 0.1~600Hz
Version: 01.22/02.2

GB 12668.3 SEMI F47

CE EAC UL US LISTED 19K IND. CONT. EQ.

DELTA ELECTRONICS, INC. 055E43A7W15480496
MADE IN CHINA

DES: SOLAR WATER PUMP PANEL WITH RMS
Model No: DSP55E0142-RM
S/N:- 55E0142RM11602709

Solar Pump Controller / Inverter

H. Manjunath
Tested & Prepared by:
Manjunath.K /Sr. Engineer

Kamalaksha CS
Approved by:
Kamalaksha CS / Sr. Manager



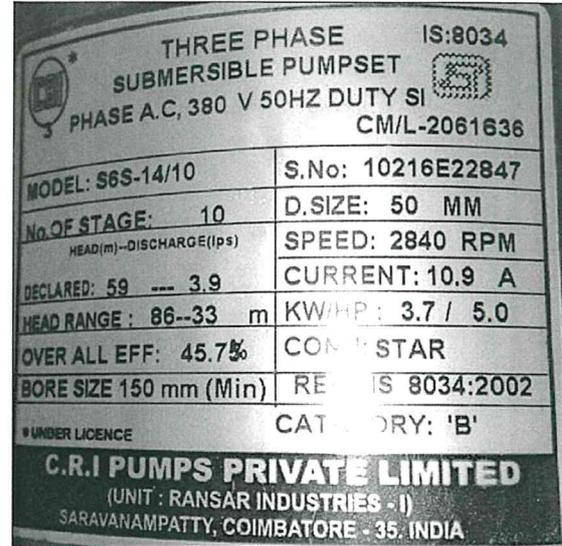
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PV WATER PUMPING SYSTEM

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Photo document



Pump Set

K. Manjunath

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 Sponsored By Industrial Development Bank Of India (IDBI)
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43 & 84 Awarangalayaam Road, K.R. Param Peet, Coimbatore - 641 006.
 ☎ : 91-0422-2562612 & 2560473 ☎ : 94875 80473 E-mail : sitarcinfo@sitarc.com, Website : www.sitarc.com

TEST REPORT NO : 05 2537 Page 1 of 5 Date : 2016.01.01

TEST REPORT OF SOLAR CABINET

Name & Address of the Customer : Delta India Electronics Pvt. Ltd.
 No.123, Ramasamy Street, K.K.Pudur
 COIMBATORE - 641 038

Dear Customer,

We are pleased to forward the test report for the following sample.

Item Description : Solar Cabinet
 Item Received On : 2015.12.29
 Sample Model : DSP55E0142-RM
 Test Method : As per IEC 60529 Edition 2.1
 Customer Order/Ref. Date : -, 29.12.2015
 SiTarc Invoice Details : Invoice No.3168/15-16 dt. 02.01.2016

Thanking you
 Yours faithfully


A.M. SBLVARAJ
 Joint Director.




NOTE:

1. This report /certificate refers only to the particular sample(s) submitted for testing / calibration and the sample was not drawn by us
2. This report /certificate shall not be reproduced except in full, unless written permission for the publication of an approved abstract has been obtained from the Director, SiTarc
3. The Tests / Calibrations or measurements covered by this document have been performed in accordance with the requirements of ISO/IEC 17025.
4. The results reported in this report /certificate are valid at the time of under the stated conditions of measurement.
5. Correction or attestation if any invalidate this report / certificate. This report strictly confidential & its use for publicity, arbitration or as evidence in legal disputes is forbidden.
6. Always Look up for HOLOGRAM to confirm our genuine Test / Calibration Reports.

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K. Manjunath
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 Manjunath.K /Sr. Engineer

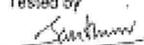
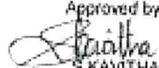
Kamalaksha CS
 Approved by:
 Kamalaksha CS / Sr. Manager



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PV WATER PUMPING SYSTEM
M/s Solar Idea Pvt. Ltd.

Plot No:126, H.No:8-2-277/A/7, Road No-2, Banjara Hills, Hyderabad 500034 Telangana, India

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE		Si'Tarc®	
ELECTRICAL TESTING LABORATORY			
TEST REPORT No. : 03 2337	PAGE No. : Page 2 of 5	DATE: 01/01/2016	
Code No. 03 2337	Tested On	01/01/2016	
TEST REPORT FOR DEGREES OF PROTECTION			
PROVIDED BY ENCLOSURES			
(As per IEC 60529 Edition 2.1)			
1.0 Details of the Sample			
Nomenclature	SOLAR CABINET		
Make / Brand	DELTA	Marking of protection code	IP 54
Serial No	55EDM42RM/1510315	Model No	DSP55E0142-RM
Description of the sample and specified requirements as received in data sheet enclosed with customer's Letter.			
2.0 Supplementary information			
2.1	Test Method As per IEC 60529 Edition 2.1		
2.2	Above sample as received in physically satisfactory condition		
2.3	Only the tests requested by the customer have been carried out.		
2.4	The specified ambient conditions were maintained during the test.		
2.5	The tests declared in the SI.No (-) are/were sub contracted according to the established procedure of this laboratory.		
2.6	Reference to the sampling procedure, wherever applicable	NIL	
2.7	Supporting documents for the measurements taken and results derived like graphs, tables, sketches and / or photographs as appropriate to test report, if any (to be attached)	Pg.No	5 of 5
2.8	Deviations from test methods are prescribed in relevant IS / Work instruction if any	NIL	
2.9	Measurement of uncertainty of test equipment is considered while testing		
2.10	*(see remark #) refers to a remark appended to the report, *(see appended table) refers to a table appended to the report.		
2.11	Under the test results the following indication (PASS, FAIL, N/A, "----") is marked against suitably.		
	Test item does meet the requirement	PASS	Test item does not meet the requirement
	No Pass / Fail Decision Taken	"----"	Test case does not apply to the test object
			N/A
<p>Tested by  C.SANTHOSH KUMAR J.E (Electrical Engg. Division)</p> <p align="center"></p> <p align="center"></p> <p align="right">Approved by  S.KAVITHA Engineer (Electrical Engg. Division)</p> <p align="right">FE232/Rev02Jun2011</p>			
83&84, AVARANPALAYAM ROAD, K.I.R. PURAM P.O., COIMBATORE - 641 096. © : 91-0422-2562612 & 2560473 t : 94875 80473 E-Mail : sitarcinfo@sitarc.com. Website : www.sitarc.com			


 Tested & Prepared by:
 Manjunath.K /Sr. Engineer


 Approved by:
 Kamalaksha CS / Sr. Manager



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PV WATER PUMPING SYSTEM
M/s Solar Idea Pvt. Ltd.

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Si'Tarc

TEST REPORT No. : 03 2337 PAGE No. : Page 3 of 5 DATE: 01/01/2016

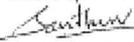
3. Test Details

Sl.No	Name of the test	Test As Per
3.1.	Marking	As per Cl 10 of IEC 60529 Edition 2.1
3.2.	Test for first characteristic numeral	As per Cl 5 of IEC 60529 Edition 2.1
3.3.	Test for second characteristic numeral	As per Cl 6 of IEC 60529 Edition 2

4. Test Results

Sl.No.	Name of the test	Specification / Test Requirements	Test Results	Remarks
1.0.	Marking : Cl 10 of IEC 60529 Edition 2.1	The requirements of marking shall be specified in the relevant product standard.	Rating Plate Not affixed. The protection of IP 54 code is not marked on the enclosure of the Box.	****
2.0.	Test for first characteristic numeral 5 : Cl 5 of IEC 60529 Edition 2.1	<u>Protection of equipment against ingress of solid foreign objects:-</u> <u>DUST-TIGHT:-</u> No ingress of dust. (Test conditions as per Cl. 13.4 and 13.6 of IEC 60529 Edition 2.1)	On inspection, the deposit of dust is not observed inside the enclosure at the end of the test. Electrical/Electronics components are assembled inside the enclosure. The protection is satisfactory.	PASS
		<u>Protection of persons against access to hazardous parts:-</u> Protection against access to hazardous parts with a wire. The access probe of 1.0 mm Ø shall not penetrate. (Tests conditions as per Cl. 12.2 of IEC 60529 Edition 2.1)	No openings observed in the sample. The protection is satisfactory.	PASS

Tested by


C.SANTHOSH KUMAR
J.E (Electrical Engg. Division)



Approved by


S.KAVITHA
Engineer (Electrical Engg Division)

FE2332/Rev02/Jun2011

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PV WATER PUMPING SYSTEM

M/s Solar Idea Pvt. Ltd.

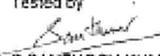
Plot No:126, H.No:8-2-277/A/7, Road No-2, Banjara Hills, Hyderabad 500034 Telangana, India

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TEST REPORT No. : 03 2337 PAGE No. : Page 4 of 5 DATE: 01/01/2016

Sl.No.	Name of the test	Specification / Test Requirements	Test Results	Remarks
3.0.	<u>Test for second characteristic numeral 4 :</u> Cl 8 of IEC 60529 Edition 2.1	<u>Protection against ingress of water – powerful water jets</u> Water projected in powerful jets against the enclosure from any direction shall have no harmful effects (Test conditions as per Cl. 14.2.4 of IEC 60529 Edition 2.1)	On inspection, the water particles are not entered inside the enclosure. The protection is satisfactory.	PASS

Tested by

C.SANTHOSH KUMAR
J.E (Electrical Engg. Division)



Approved by

S.KAMITHA
Engineer (Electrical Engg. Division)

FE2332/Rev02/Jun2011

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PV WATER PUMPING SYSTEM

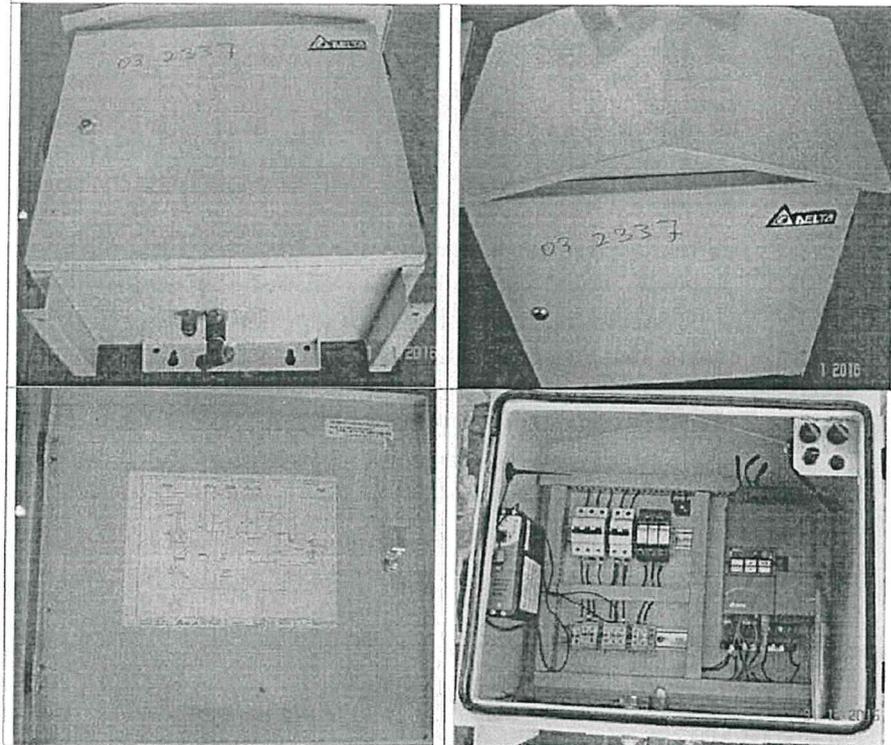
M/s Solar Idea Pvt. Ltd.

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ELECTRICAL TESTING LABORATORY**

Si'Tarc®

TEST REPORT No. : 03 2337 PAGE No. : Page 5 of 5 DATE: 01/01/2016
PHOTOGRAPH



--- END OF THE REPORT ---

Tested by
Santhosh
C.SANTHOSH KUMAR
J.E (Electrical Engg. Division)



Approved by
S.Kavitha
S.KAVITHA
Engineer (Electrical Engg.Division)

FE232/Rev02/Jun2011

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**C.R.I. PUMPS**
Pumping trust. Worldwide.

26.05.2016

TUV Rheinland (India) Pvt. Ltd,
17B, Electronics City, Phase II,
Industrial Area,
Begur Hobli,
Bangalore-560 100.

Dear Sir,

We M/s. C.R.I. Pumps Private Limited located at 7/46-1, Keeranatham Road, Saravanampatty, Coimbatore – 641035 manufacturers of solar submersible pumpset and here we declare "the pumps and all external parts of motor used in submersible pump which are in contact with water are of Stainless steel as per MNRE guideline 2015 – 16".

We have supplied our model pump S6S-14/10-5HP-70 m for testing to "M/s SOLAR IDEA PVT. LTD., H.No. 8-2-277/A/7, Plot No. 126, Banjara Hill, Hyderabad – 500034, Telangana, INDIA.

Thanking You,

For C.R.I. Pumps Private Limited,



Authorized Signatory

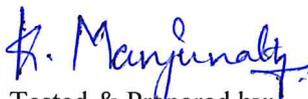
C.R.I. PUMPS PRIVATE LIMITED

CORPORATE OFFICE

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