



SIKCO Solar pumping solution is widely used for daily Domestic water lifting, Agricultural Irrigation, Industrial uses, Gardening, Fountain etc. This system is consisting of solar array, a pump, a solar pumping inverter, structural supports etc. The design philosophy is based on that store water than electricity. There is no energy storing device required such as battery.



Features

- ∞ High flow system for faster tank fill and significant water output.
- ∞ Proven motor and pump technology for long-term reliability
- ∞ Available Free of cost at your doorstep.
- ∞ Clean and pollution free energy, Eco-friendly & do not harm nature.
- ∞ Ideal for remote areas, where electricity is not available or availability is capital intensive.
- ∞ Suitable for day time irrigation, Continuous supply for 6-8 hours in a day.
- ∞ MPPT – Max Power Point Tracking for maximizing efficiency of input power
- ∞ Soft start feature prevents water hammer and increases system life Easy to operate.
- ∞ Simple installation and no required maintenance.
- ∞ MNRE approved.

0.5 HP Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)						
	1000	800	600	400	300	200
HEAD (M)	FLOW RATE (LITERS / MINUTE)					
15	99	86	69	49	36	22
20	90	77	60	39	25	
25	83	70	52	30		
30	75	61	43	20		
35	65	51	32			

01 HP Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)						
	1200	1000	800	600	400	300
HEAD (M)	FLOW RATE (LITERS / MINUTE)					
20	62	56	48	38	25	18
40	52	46	37	26	14	
60	42	35	26	15		
80	32	25	15			
90	27	20	10			

01 HP Monoblock Pumping Solution

PHOTOVOLTAIC POWER (WATTS)						
	1400	1200	1000	800	600	400
HEAD (M)	FLOW RATE (LITERS / MINUTE)					
15	134	114	89	62	35	7
20	117	97	72	45	18	
25	100	80	55	28		
30	84	63	37			

1.5 HP Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)								
	1600	1400	1200	1000	800	600	400	300
HEAD (M)	FLOW RATE (LITERS / MINUTE)							
20	62	59	54	47	39	30	19	13
40	55	52	47	40	32	23	12	6
60	48	45	40	33	25	16	5	
80	41	38	33	26	18	9		
100	34	31	26	19				
120	27	24	19					

02 HP Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)									
	2000	1800	1600	1400	1200	1000	800	600	400
HEAD (M)	FLOW RATE (LITERS / MINUTE)								
30	72	69	63	56	49	41	32	23	13
60	62	58	52	45	38	30	22	13	
90	52	48	42	35	28	20	11		
120	40	36	30	23	16	8			
140	28	24	18	11					

02 HP Monoblock Pumping Solution

PHOTOVOLTAIC POWER (WATTS)									
	2000	1800	1600	1400	1200	1000	800	600	400
HEAD (M)	FLOW RATE (LITERS / MINUTE)								
10	410	378	342	300	250	200	150	100	50
15	365	332	290	250	200	150	100		
19	320	288	246	205	155	105			
22	280	245	200	155	105				

03 HP (03-Phase) Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)

	3000	2750	2500	2250	2000	1800	1600	1400	1200	1000	800
HEAD (M)	FLOW RATE (LITERS / MINUTE)										
40	130	122	113	104	94	84	73	60	48	36	22
60	116	108	99	90	80	70	59	46	34	22	
80	102	94	85	76	66	56	45	32	20		
100	88	80	71	62	52	42	31				
120	74	66	57	48	38	28					
140	60	52	43	34	23						

03 HP Monoblock Pumping Solution

PHOTOVOLTAIC POWER (WATTS)

	3000	2750	2500	2250	2000	1800	1600	1400	1200	1000	800
HEAD (M)	FLOW RATE (LITERS / MINUTE)										
10	530	520	505	470	420	370	310	255	200	140	85
17	480	470	455	420	370	320	260	205	150	90	
20	430	420	405	370	320	270	210	155	100		

05 HP (03-Phase) Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)

	5000	4500	4000	3500	3000	2500	2000	1500
HEAD (M)	FLOW RATE (LITERS / MINUTE)							
140	73	68	62	56	48	39	30	20
180	65	60	53	45	38	29	20	
220	58	52	45	38	29	20		
260	52	46	38	31	22			
300	43	37	30	23	15			
340	36	29	22	15				

05.5 HP Monoblock Pumping Solution

PHOTOVOLTAIC POWER (WATTS)									
	5000	4500	4000	3500	3000	2500	2000	1500	1000
HEAD (M)	FLOW RATE (LITERS / MINUTE)								
14	600	565	520	460	390	320	240	160	80
24	520	485	435	375	304	236	158	86	
36	435	390	345	285	222	150	80		
44	340	290	240	180					

7.5 HP (03-Phase) Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)							
	7000	6000	5000	4000	3000	2000	1000
HEAD (M)	FLOW RATE (LITERS / MINUTE)						
20	490	460	420	356	265	168	70
40	435	405	355	286	195	98	
60	385	350	295	216	125		
80	325	285	222	145			
100	260	220	145				

10 HP (03-Phase) Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)								
	9000	8000	7000	6000	5000	4000	3000	2000
HEAD (M)	FLOW RATE (LITERS / MINUTE)							
20	500	485	446	390	320	247	180	105
40	460	440	400	344	276	205	137	65
60	428	402	355	295	230	160	90	
80	384	354	305	245	182	112		
100	335	306	254	195	135	72		

15 HP (03-Phase) Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)											
	14000	13000	12000	11000	10000	9000	8000	7000	6000	5000	4000
HEAD (M)	FLOW RATE (LITERS / MINUTE)										
20	1216	1170	1110	1037	957	860	765	640	510	380	220
40	1085	1030	968	892	817	720	615	490	380	210	
50	990	925	855	782	702	605	490	365	230		
60	880	820	750	680	590	485	365	220			

20 HP (03-Phase) Submersible Pumping Solution

PHOTOVOLTAIC POWER (WATTS)												
	17000	16000	15000	14000	13000	12000	11000	10000	9000	8000	7000	6000
HEAD (M)	FLOW RATE (LITERS / MINUTE)											
20	1158	1103	1053	990	930	850	758	653	543	413	278	158
40	1028	983	933	880	810	723	618	513	395	263	128	
60	918	863	813	750	670	590	488	383	255	123		
70	859	810	753	690	610	523	418	303	175			
80	808	751	691	620	540	453	348	223				
100	648	603	548	480	390	293	178					



Commercial:

Fixed Axis

SOLAR PUMPING SYSTEM:

SIKCO Solar Pumping Specifications

Including fixed axis on standalone pole, controller including SW inverter with grid compatibility,
100% GI support Structure,
Cables & MNRE approved PV Module
(Installation cost is including, Excavation/PCC work by end user)

SOLAR DC SURFACE PUMPING SYSTEM

DC Power (PV Watts)	Max. DC Voltage	SIKCO DC Pump Controller Model No.	DC Pump Capacity	Output Voltage	Rated Output Current	MAXIMUM RETAIL PRICE (Solar Panel + Controller + Surface DC Pump + Solar Cable + MMS)
630	60 VDC	SIKCO48DC5	0.5 HP	48 VDC	8.3 A	59,990/- + GST 5%
1260	60 VDC	SIKCO48DC10	01 HP	48 VDC	15.5 A	89,990/- + GST 5%
1890	72 VDC	SIKCO60DC15	02 HP	60 VDC	25 A	1,19,990/- + GST 5%
3150	72 VDC	SIKCO60DC20	03 HP	60 VDC	37 A	1,79,990/- + GST 5%
5040	72 VDC	SIKCO60DC30	05 HP	60 VDC	62 A	2,29,990/- + GST 5%

SOLAR AC SUBMERSIBLE PUMPING SYSTEM

Power (Watt)	Max. DC Voltage	Model as per MNRE Specification	AC Pump Capacity	Head Range (M)	Pump Controller Price (INR)	PRICE (Solar Panel + Controller + Solar Cable + MMS)
1260	230 VDC, 3 phase,	Model - I	01 HP	20-50	16000/-	79,990/- + GST 5%
1890	230 VDC, 4.5 A	Model - II	02 HP	20-50	21000/-	1,04,990/- + GST 5%
3150	230 VDC, 8.5 A	Model – III. IV, V	03 HP	30-75	23000/-	1,39,990/- + GST 5%
5040	380 VDC, 10.5 A	Model – VI. VII, VIII	05 HP	30-75	25990/-	1,99,990/- + GST 5%
7560	750 VDC, 13.0 A	Model – IX. X, XI	7.5 HP	60-160	29990/-	2,79,990/- + GST 5%
10080	750 VDC, 18.0 A	Model – XII. XIII, XIV	10HP	60-160	34990/-	3,64,990/- + GST 5%
15120	750 VDC, 24.0 A	As required	15HP	60-180	49990/-	6,44,980/- + GST 5%
20160	750 VDC, 32.0 A	As required	20 HP	60-200	69990/-	7,29,980/- + GST 5%

Single Axis Tracking System

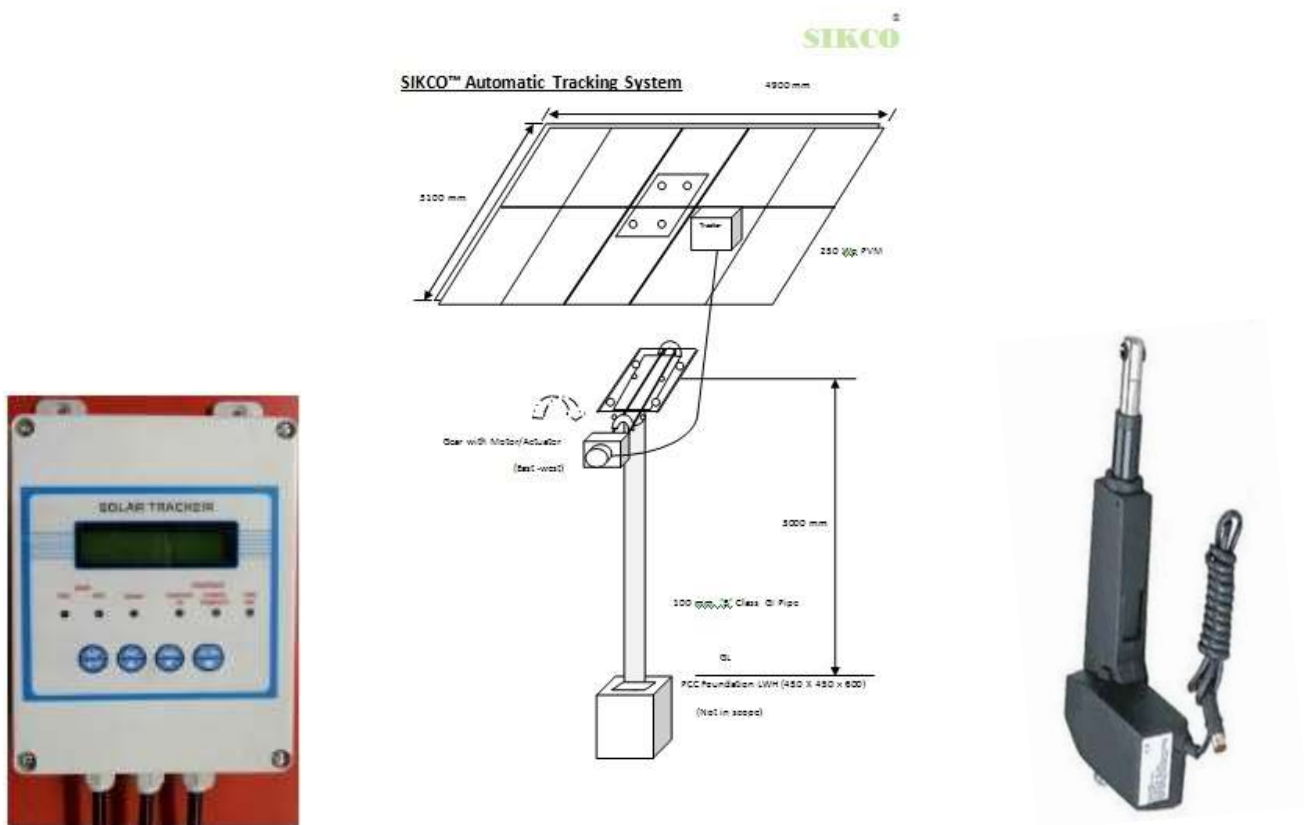
Schedule of Quantity

Capacity: 5860 KWp (18 No X 325 Wp)

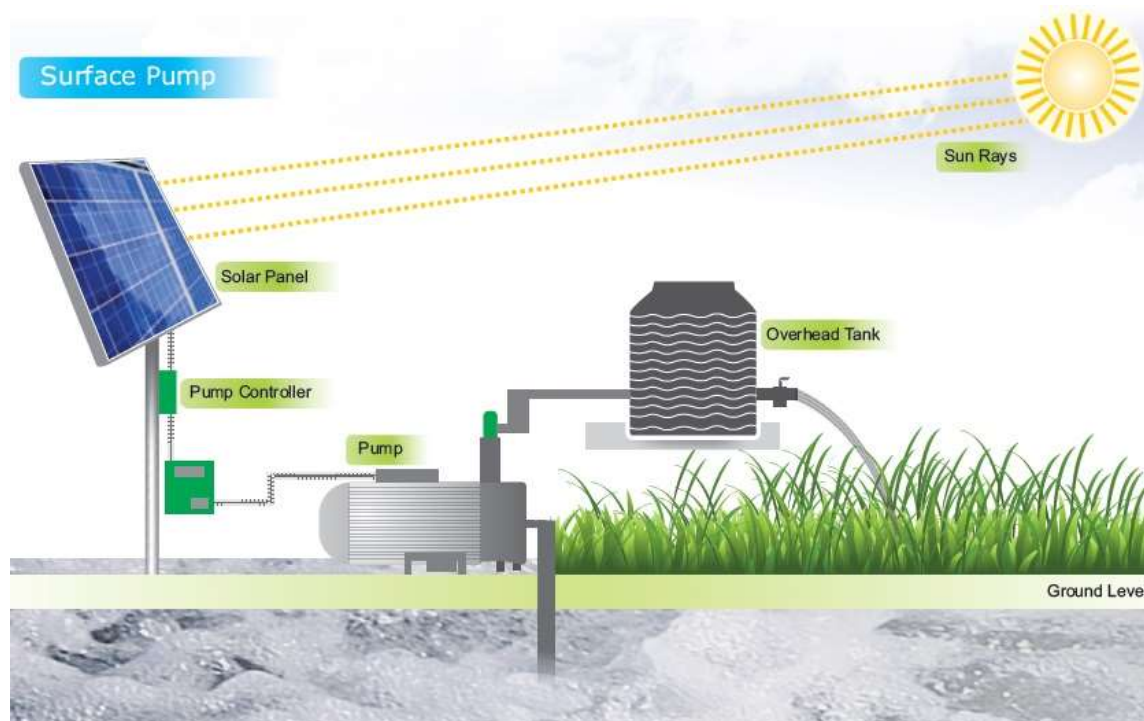
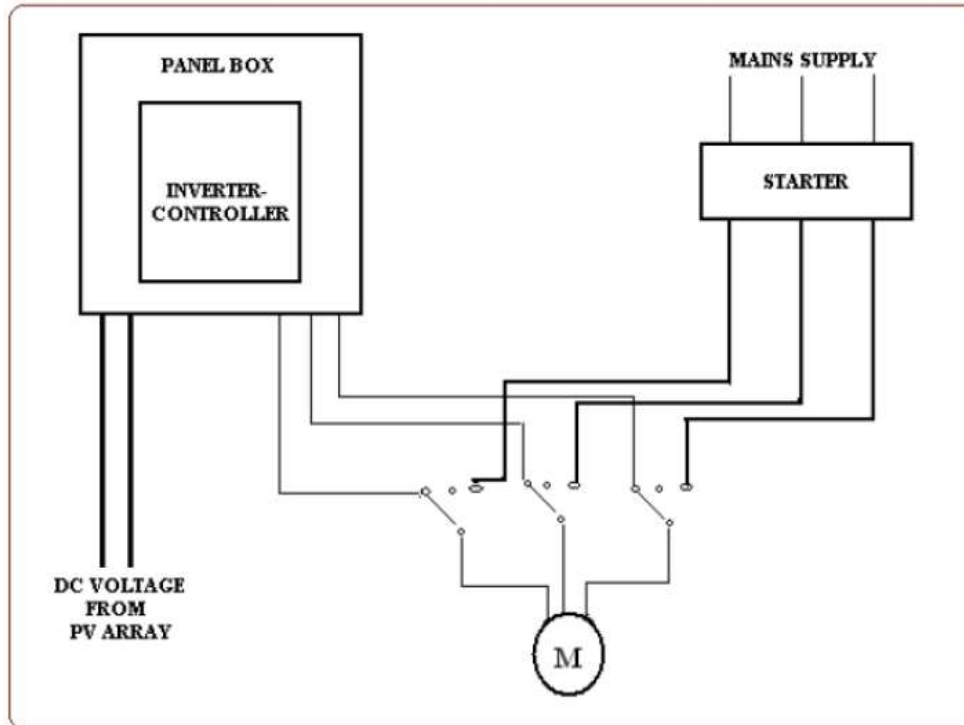
SN	Particulars	Unit	Qty	Rate	Amount
1	Supply of Single Axis (Controls azimuth angle according to astronomical sun positioning) Controller etc. complete. Make: SIKCO	KWp	6	9000	54,000
2	Supply of linear actuator with geared motor capacity 6 KN, 600 Kg, 24 Volt DC, IP 65, Aluminum body etc. complete. Make: SIKCO				
3	12 AH SMF battery x 1 No, 30 Wp MNRE approved solar panel x 01 No, FRP /Poly carbonate Outdoor weather proof box , Charge controller, Cabling etc. complete.				
4	Customized Solar Mounting Structure (100% HDG) with all fittings and Accessories				
Materials (A)					INR 54,000
Installation and Commissioning of tracking system (B)					INR 20,000
Total (A+B)					INR 74,000


Note:

- Above cost with pump set, well cables, including supply of Pole, Structure, PV Module, Actuator & Tracker (if system with tracking system), Pump Controller, Cables & Connectors etc. complete.
- PCC Foundation by end user
- 100% advance along with PO
- Delivery in 2-3 weeks at site
- Contact for discount on bulk purchase



Single Line Diagram



<p>नवीन और नवीकरणीय ऊर्जा मंत्रालय Government of India MINISTRY OF NEW AND RENEWABLE ENERGY ब्लॉक नं. 14, संजीव लयावत परिसर, लोदी रोड, नई दिल्ली-110003 BLOCK NO. 14, C.G.O. COMPLEX, LODI ROAD, NEW DELHI-110003</p>		<p>Fax : 011-24361296 Telegram : RENEWABLE</p>	
<p>सं. No. 32/09/2016-17/PVSE</p>		<p>दिनांक 24.09.2016</p>	
<p>M/S SIKCO Engineering Services, B-97, Sector-12, Near IVS Model School, Kharghar, Navi Mumbai - 410210 (Maharashtra)</p>			
<p>Sub: Channel partner for Off-Grid and Decentralized Solar Applications Programme of Ministry of New and Renewable Energy.</p>			
<p>Sir, With reference to your letter with rating report by ICRA for your Company it is to inform that Ministry has accepted the Rating Report and empanelled your Company as Channel Partner for Off-Grid and Decentralized Solar Applications Programme.</p>			
<p>2. The validity period of empanelment of your company as channel partner is up to 31.03.2018.</p>			
<p>3. Channel partner code of your company is MH-SI/2016/N/15.</p>			
<p>4. Being a channel partner you have to install systems with standards specified for the off-grid programme with or without subsidy. In case any sub-standard components are installed and systems are not functioning as per the requirement of the programme, the Ministry will withdraw empanelment with immediate effect by giving advance notice to the Company.</p>			
<p>5. As channel partner, your company is entitled to work in any state(s) of your choice. However, your company should have an office in the part of that state(s) where you work with all tax/registrations according to that State Government and billing must be from the office of the concerned state.</p>			
<p>6. All the systems to be installed as channel partner must be with 2 years' warranty followed by 3 years' comprehensive maintenance contract which is mandatory for channel partner to offer any solution to customer with or without subsidy.</p>			
<p>1/2</p>		<p>7. Ministry also anticipates as channel partner, your company will create awareness and educate users/beneficiaries about the programme.</p> <p>8. Government of India's logo is not allowed to be used in any of your company's letter heads/ any other communications.</p> <p>9. This empanelment is purely on temporary basis only to participate in promoting the Off-Grid and Decentralized Solar Application programme.</p> <p>10. Renewal of channel partnership for another 2 years is based on the activity/ progress reports that have to be submitted to the Ministry on quarterly basis.</p> <p>11. Ministry has no role in the agreement between user and company, any legal matter raised will be responsibility of channel partner only.</p> <p>12. Any complaint received from the beneficiary against the company regarding non-functioning of system (with or without subsidy) will be posted on Ministry's website till the time the problem get resolved.</p>	
		<p>Yours faithfully  (Dr. G. Prasad) Scientist-F/Director Tele fax- 011-24361151</p>	
		<p>Copy to: 1. JS (TK) 2. PSO to Secretary, MNRE 3. Concerned File</p>	

<p>COMERICAL DETAILS</p>			
Registered Name	: SIKCO Engineering Services	<p>Online Shopping make my green.com Most integrated renewable energy products brand</p>	
Corporate Office	: B-97, Sector -12, Kharghar - 410210 Phone: (022) - 65174600 Email: info@facilityindia.com Web: www.facilityindia.com	<p>MSME & CRISIL Registered</p>	
GSTN	: 27BACPS8691E1Z9	<p>JAS-ANZ</p>	
PAN	: BACPS8691E		
Trade License	: II. 17 / 1621		
Banker	: Axis Bank Limited , Kharghar, Navi Mumbai		
Bank A/C No (CAC)	: 910020018475555, IF CODE: UTIB0000489		
<p>SIKCO is a registered trademark SIKCO is a CRISIL certified company SIKCO donate 1% of its earnings on underprivileged children's education</p>			



CSIR - NAL Estd. 1959
ISO 9001:2008
CERTIFIED
ORGANISATION

वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
राष्ट्रीय वांतरिक्ष प्रयोगशालाएं
Council of Scientific & Industrial Research
National Aerospace Laboratories

पी बी रॉड / PB No.1779, एचएएल एयरपोर्ट रोड / HAL Airport Road, बंगलूरु / Bangalore- 560 017, भारत / INDIA

फोन / Phone: (का / Off.) : +91 - 80 - 2508 6147 फैक्स / Fax : +91 - 80 - 2508 6009

ई-मेल / E-mail : mathur@nal.res.in

डॉ जे एस माथुर

मुख्य वैज्ञानिक एवं प्रधान

ज्ञान एवं प्रौद्योगिकी प्रबंधन प्रभाग

Dr. J S Mathur

Chief Scientist & Head

Knowledge & Technology Management Division

CSIR-NAL/ SIKCO - MoU/2016/1
January 15, 2016

Mr. Milton Sikder
Director
SIKCO Engineering Services,
B-97, Sector-12, Kharghar,
Navi Mumbai, Pin 410210

Sub: Signing of MoU between CSIR-NAL and M/s SIKCO Engineering Services

Dear Sir,

Please find enclosed herewith one (1) original signed set of MoU between CSIR-NAL and M/s SIKCO Engineering Services, Navi Mumbai for collaborations in the field of Wind Energy, Solar-Wind Hybrid Energy, Green Energy Integration.

With this, I look forward for fruitful engagement of CSIR-NAL with M/s SIKCO Engineering Services for harnessing and development of renewable sources of energy.

Thanking you,



Encl: As above

Your's faithfully,



(J S Mathur)