

# **GUIDELINES FOR IMPLEMENTATION OF SOLAR WATER PUMPING SCHEME DURING THE YEAR 2021-22**

## **WHAT IS SOLAR PUMP?**

The water pumping system which operates on solar energy is called solar pump. Solar pump is totally pollution-free as it uses sunlight to draw water. It requires very little maintenance as compared to the diesel pump sets. It comprises of solar photovoltaic modules/panels, motor pump set, inverter/controller, control switch, Interconnecting cables and GI structure/ frame etc. Solar pump works during the sunshine hours and is ideal for small and medium farmers.

## **ELIGIBILITY**

- a. Individual farmers will be supported to install standalone solar Agriculture pumps of capacity up to 10 HP for replacement of existing diesel Agriculture pumps / irrigation systems in off-grid areas, where grid supply is not available.
- b. Water User Associations, Gaushalas' and community/cluster based irrigation system will also be covered under this component. However, priority would be given to small and marginal farmers.

## **NOTIFIED AREAS OF THE CENTRAL GROUND WATER AUTHORITY**

- I. In the notified areas of the CGWA (list enclosed), farmers who are drawing water from farm ponds with micro irrigation techniques/Under Ground Pipe Lines shall only be considered.

AND/OR

- II. New Solar Agriculture pumps would not be covered under this component in Notified areas. However, existing standalone diesel pumps, can be converted into standalone solar pumps in these areas provided they use micro irrigation techniques to save water.

## **SUBSIDY PATTERN**

These off-grid solar water pumping systems shall only be provided to the farmers/Gaushala's/ Water User Associations and community/cluster based irrigation system with 75% subsidy (State+MNRE) as given under:

<b>Capacity</b>	<b>User Share</b>	<b>MNRE Subsidy</b>	<b>State Subsidy</b>
3-7.5 HP Pumps	25% of the cost	30% of the cost	45% of the cost
10 HP Pumps	25% of the cost	30% of the cost of pumps upto 7.5 HP	Balance of the user share and MNRE subsidy

## MAJOR CONDITIONS FOR GETTING SOLAR PUMPS

- i. He/she have agricultural land in his/her name.
- ii. The applicant has no electric agricultural connection in his/her name.
- iii. The beneficiaries who have already covered under the solar pump scheme, is not eligible to get another solar water pumping systems irrespective of its capacity/location.
- iv. He/she have ParivarPehchanPatra
- v. The applicant must have micro-irrigation (drip/sprinkler) and/or Under Ground Pipe Lines (UGPL) in his/her field.
- vi. The systems shall be provided on the basis of first come first serve basis (in accordance with the application submitted online).

## HOW TO APPLY

The farmers who wish to install solar water pumping systems shall have to apply online through <http://saralharyana.gov.in/> portal. Applicant must have to deposit the applicable user share while applying online through payment gateway or by way of challan (will be generated online).

No hard copy of the application shall be entertained by the Department/HAREDA.

## GUIDELINES

1. The applicants are advised to read the scheme guidelines, terms and conditions, technical specifications of solar pumps, FAQs etc. of the scheme (available online on [www.hareda.gov.in](http://www.hareda.gov.in) ) before submission of applications.
2. The applicants are also advised to read the technical specification of the different types of solar water pumping systems carefully before submission of application. These are available on the official website of the Department/HAREDA ([hareda.gov.in](http://hareda.gov.in)).
3. The farmers have to deposit 25% cost of the pump as user share while applying for the system online.
4. The tentative quantity, tentative cost and accordingly, the user share are as follows (these may vary as per the availability of budget, price discovered etc.):

Pump Capacity	Type	L1 Rate for Haryana	GST @ 13.8%	Total Cost	Farmers Share @ 25% of the cost	MNRE Share @ 30% of the cost	State Share
3 HP DC	Surface	149,785	₹ 20,670	₹ 170,455	₹ 42,614	₹ 51,137	₹ 76,705
5 HP DC	Surface	208,549	₹ 28,780	₹ 237,329	₹ 59,332	₹ 71,199	₹ 106,798

7.5 HP DC	Surface	310,873	₹ 42,900	₹ 353,773	₹ 88,443	₹ 106,132	₹ 159,198
10 HP DC	Surface	404,000	₹ 55,752	₹ 459,752	₹ 114,938	₹ 106,132	₹ 238,682
3 HP DC	Submersible	155,528	₹ 21,463	₹ 176,991	₹ 44,248	₹ 53,097	₹ 79,646
5 HP DC	Submersible	218,513	₹ 30,155	₹ 248,668	₹ 62,167	₹ 74,600	₹ 111,901
7.5 HP DC	Submersible	323,422	₹ 44,632	₹ 368,054	₹ 92,014	₹ 110,416	₹ 165,624
10 HP DC	Submersible	404,000	₹ 55,752	₹ 459,752	₹ 114,938	₹ 110,416	₹ 234,398
3 HP AC	Submersible	152,028	₹ 20,980	₹ 173,008	₹ 43,252	₹ 51,902	₹ 77,854
5 HP AC	Submersible	212,402	₹ 29,311	₹ 241,713	₹ 60,428	₹ 72,514	₹ 108,771
7.5 HP AC	Submersible	308,027	₹ 42,508	₹ 350,535	₹ 87,634	₹ 105,160	₹ 157,741
10 HP AC	Submersible	404,000	₹ 55,752	₹ 459,752	₹ 114,938	₹ 105,160	₹ 239,654

5. The subsidy will be provided only for the solar water pumping systems. In case an applicant choose to install Universal Solar Pump Controller (USPC), he/she have to bear the entire cost of the USPC (without any subsidy).
6. A farmer shall be eligible to apply for only one solar pump. Therefore, they should only apply for the required capacity pump set and mention the capacity & type (AC or DC) in the application form.
7. The Water User Associations and community/cluster based irrigation system may be provided more than one pump as per the scheme guidelines.
8. The farmers/Gaushala's/ Water User Associations and community/cluster based irrigation system shall have to provide required size bore well complete with lowering and south facing shadow free land to the firm for installation of solar pump.
9. If the farmers/Gaushala's/Water User Associations and community/cluster based irrigation system fails to provide the bore well and shadow free land at the time of site survey, then his/her application shall be cancelled and they will not have any claim on Solar Pump.
10. Allotment of solar pumps shall be subject to the availability of funds from the Government. The applicant cannot make any claim for allotment of solar pumps if required funds are not available/ scheme is withdrawn / cancelled by the Government or the application is rejected by Department/HAREDA.
11. Department/HAREDA has the right to reject any application which shall not be fulfilling the eligibility requirements in general including technical requirements i.e. non providing of bore well of required size & shadow free land in time, depth of water beyond specified limit and dispute of land, if any etc.
12. If the successful applicant seeks refund before issuance of work order of solar pump, then 5.0% of the amount deposited by the applicant shall be forfeited. This condition shall not be applicable in case of cancellation of the system is done by the Department/HAREDA.

13. If at any time after allocation and before installation of the pump the information provided by the applicant is found wrong then the Department/HAREDA may reject the application and forfeit 10% payment deposited for installation of solar pump.
14. If at any time after installation of pump, it comes to notice of the Department/HAREDA that the applicant had provided any wrong information for installation of pump, then the applicant shall be liable to payback the full subsidy amount to Department/HAREDA.
15. Department/HAREDA/firm shall not be responsible for non-functioning/mal-functioning of the system arising out of misuse and alterations/modifications/relocation, if any, made in the solar pumping system by the farmer.
16. Department/HAREDA reserves the right to withdraw/amend/annul the implementation process/guidelines of the scheme at any time in view of the change in the Government Policy or any other reason what so ever in the interest of Department/HAREDA /Govt./Public without incurring any liability.
17. These solar pumps shall be got installed by the Department/HAREDA from the empanelled firms, who shall take approx. 3month's time from the date of issue of work order. In force majeure conditions or unavoidable circumstances, the installation of pumps may take more time than the specified time.
18. In case of delay in supply, installation and commissioning/non-installation of solar pumps due to any reasons, the Department shall not be liable to pay any interest or demurrage etc.
19. In case of any cancellation and reallocation of already allotted pump(s) due to any reasons, the Additional Deputy Commissioner-cum- Chief Project Officer of the District shall resolve such issues at their own level from the seniority list in a transparent manner under intimation to this Directorate.
20. Effective participation of Gram Panchayats in the implementation/promotion of the systems may be ensured by giving due publicity.
21. The survey of the land of the farmer shall be carried out by District Officers / Company representative for verification of the information provided by the farmer in the application through mobile app. If any information provided by the farmer is found false/wrong then the application shall be rejected and action shall be initiated as per applicable clause of this document.
22. Before placing the work order, the district office in consultation with the empanelled firm shall ensure that the site of installation of solar water

pumping system is feasible for installation of solar water pumping system. Also, the eligibility of the beneficiary shall be ascertained.

23. In case an applicant wish to get his application cancelled or application is rejected, scheme is discontinued etc., the refund to the applicant(s) shall be made by the Department in accordance with the scheme guidelines and the Department shall not pay any interest or demurrage etc.
24. Beneficiary shall not sell or transfer his/her solar pump to any other person. In case, any misuse/ transfer of tubewell is found, he/she have to refund the subsidy amount (MNRE and State) to the Department and the Department may take other legal action also.
25. In case it is found that the beneficiary has installed solar water pumping system on subsidy earlier, he/she have to reimburse the subsidy amount (MNRE and State) to the Department.
26. Any dispute arising out of implementation of the scheme shall be subject to the jurisdiction of the Courts at Panchkula.

### **Application Process:**

1. The applicant have to apply online on saralharyana.gov.in portal giving details of address, location of land, land details, irrigation details, pump details etc.
2. While applying online, the applicant can chose any capacity of pump and empanelled firm, out of the eligible firms.
3. If an applicant choose a general bidder then he/she must have to choose a MSME bidder as a second option, so that in case the targets of general category is completed, the order can be placed with MSME firms.
4. The applicant has to deposit the applicable user share i.e. 25% of the total cost of the pump online.
5. After receipt of application online, the selected empanelled firm shall conduct the survey of the given site through mobile application in 15-20 days.
6. During site survey, the applicant have to provide the accurate details required for installation of solar pumps. The applicant have to give an undertaking in this regard and the same shall be uploaded on the mobile app by the empanelled firm.
7. Applicants are advised to check the details entered in the mobile app, as these details are critical for proper selection of pump size.
8. If the application and details of site survey are found as per requirements under the scheme, then work orders for the given applicant will be issued to the empanelled firms by the Department.
9. In case the site is not found feasible or the applicant is found to be not fulfilling the requirements, his/her application will be rejected and user share deposited shall be refunded without any interest.
10. Generally work orders will be issued by the Department after compiling the capacity wise/firm wise list of different applicants at an interval of 15-20 days.
11. The firm shall supply the material after pre-dispatch inspection of the material by the Department.
12. After issue of work orders, the empanelled firms shall supply, install and commission the system within 90 days or as per decision of the Department of New & Renewable Energy.
13. The applicant have to sign the material receipt, handing over certificate, Joint Commissioning Report (on complete installation and commissioning)

## LIST OF NOTIFIED AREAS OF CGWA IN HARYANA

<b>SR. NO.</b>	<b>STATE</b>	<b>LOCATION</b>	<b>Date of Notification</b>
1	Haryana	Municipal Corporation of Faridabad & Ballabgarh	14.10.1998
2	Haryana	Shahbad Block of Kurukshetra District	2.12.2006
3	Haryana	Nangal Chowdhary Block of Mahendragarh District	2.12.2006
4	Haryana	Narnaul Block of Mahendragarh District	2.12.2006
5	Haryana	Samalkha Block of Panipat District	2.12.2006
6	Haryana	Karnal Block of Karnal District	2.12.2006
7	Haryana	Khol Block of Rewari District	2.12.2006
8	Haryana	Entire Gurgaon District	13.08.2011
9	Haryana	Badra block of Bhiwani District	13.08.2011
10	Haryana	Ladwa block of Kurukshetra District	13.08.2011
11	Haryana	Pehowa block of Kurukshetra District	13.08.2011
12	Haryana	Rania block of Sirsa District	13.08.2011
13	Haryana	Tohana block of Fatehabad District	13.08.2011
14	Haryana	Gulha block of Kaithal District	13.08.2011
15	Haryana	Bapoli block of Panipat District	13.08.2011
16	Haryana	Rajaund block of Kaithal District	27.11.2012
17	Haryana	Ellenabad block of Sirsa District	27.11.2012

**Document/information to be kept ready while applying online:**

1. PariwarPahechanPatra No.
2. Aadhar Card No.
3. Copy of Agricultural LandRecord
4. Self Declaration
5. Any other document required by the Department



## Self-Declaration of Applicant of PM-KUSUM scheme

I \_\_\_\_\_ (Name of Applicant) S/D/o  
\_\_\_\_\_, is a resident of Village  
\_\_\_\_\_, Tehsil, \_\_\_\_\_,  
Block \_\_\_\_\_ District \_\_\_\_\_, Haryana  
and I undertake as under:

1. That I have read the scheme guidelines and I will abide by the scheme guidelines.
2. That I have a total of \_\_\_\_\_ Acre, \_\_\_\_\_ Kanal and \_\_\_\_\_ Marla undisputed agricultural land in my name in Village \_\_\_\_\_, Tehsil, \_\_\_\_\_, Block \_\_\_\_\_ District \_\_\_\_\_, Haryana.
3. That following are the detail of my agricultural land:
  - i. Khewat No. \_\_\_\_\_
  - ii. Khasra No. \_\_\_\_\_
  - iii. Khatoni No. \_\_\_\_\_
4. That I do not have regular electric connection for tubewell in the above said land.
5. That \_\_\_\_\_ I \_\_\_\_\_ have \_\_\_\_\_ installed \_\_\_\_\_ (Drip/Sprinkler/Under Ground Pipe Line) in my field.
6. That have never availed subsidy under solar water pumping system scheme anywhere in Haryana

It is certified that:

- A. The above information given by me is correct to the best of my knowledge and nothing has been concealed. In case, it is found that the information given by me is incorrect/false, I will pay back the full subsidy amount to the Department of New & Renewable Energy, Haryana & HAREDA.
- B. I will not dismantle/sale/relocate the solar water pumping system without prior permission of the Department of New & Renewable Energy, Haryana & HAREDA. In case, it is found that the system has been dismantled/sold/relocated without prior permission, I will pay back the full subsidy amount to the Department of New & Renewable Energy, Haryana & HAREDA.

Dated

(Signature of the applicant)

## Annexure-I

<b>CAPACITY AND TYPE WISE CONSENT GIVEN BY VARIOUS FIRMS</b>											
<b>Pump Capacity</b>	<b>Type</b>	<b>L1 Rate Rs. for Haryana</b>	<b>ROTOMAG</b>	<b>Ecozen</b>	<b>Ethos</b>	<b>Gautam</b>	<b>Himalayan</b>	<b>Premier</b>	<b>Span</b>	<b>Shakti</b>	<b>VRG Energy</b>
3 HP DC	Surface	₹ 149,785	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
5 HP DC	Surface	₹ 208,549	Yes	No	No	No	No	No	No	No	No
7.5 HP DC	Surface	₹ 310,873	Yes	No	No	No	Yes	No	Yes	No	No
10 HP DC	Surface	₹ 404,000	Yes	No	No	No	Yes	No	No	No	No
3 HP DC	Submersible	₹ 155,528	Yes	No	No	No	Yes	No	No	No	No
5 HP DC	Submersible	₹ 218,513	Yes	No	No	No	No	No	No	No	No
7.5 HP DC	Submersible	₹ 323,422	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10 HP DC	Submersible	₹ 404,000	Yes	No	Yes	Yes	Yes	No	No	Yes	No
3 HP AC	Submersible	₹ 152,028	Yes	No	No	No	Yes	No	No	No	No
5 HP AC	Submersible	₹ 212,402	Yes	No	No	No	No	No	No	No	No
7.5 HP AC	Submersible	₹ 308,027	Yes	No	Yes	Yes	No	No	No	Yes	No
10 HP AC	Submersible	₹ 404,000	Yes	Yes	Yes	Yes	Yes	No	No	Yes	No