



MAHAVITARAN
Maharashtra State Electricity Distribution Co. Ltd.
(Govt. of Maharashtra Undertaking)
CIN : U40109MH2005SGC153645

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To,
All Chief Engineer,(O&M) Zone,
All Superintending Engineer,(O&M) Circle,
MSEDCL.

Sub.: Guidelines and clarifications for Offgrid solar Pump Installations

The Maharashtra government has launched the "Magel Tyla Saur Krushi Pump Yojana" to promote the use of off-grid solar pumps for irrigation. The scheme aims to install 1 lakh solar pumps every year for the next 5 years. The KUSUM B scheme is another ongoing scheme for off-grid solar pumps.

There are several queries and concerns regarding the implementation of the Magel Tyla Saur Krushi Pump Yojana and the KUSUM B scheme at field offices. To address these concerns, some guidelines and clarifications are provided below:

1. According to the Government of Maharashtra's GR dated 12.05.2021, farmers can avail of a one-time subsidy benefit for installing an off-grid solar pump. However, if a farmer already has a solar pump and wishes to install another one on their nearby land, either in the same village or another village, it's not feasible. Additionally, even if a farmer has a conventional pump, they are not eligible for a solar pump subsidy.
 - In such cases, Additional solar Pump can be approved if beneficiary wishes to install another solar Pump in his nearby land in same village or another village by contributing 100 % cost of DC Off grid solar pump in ORC scheme.
2. In cases where multiple consumers share a common well and want to install an off-grid solar pump , One beneficiary collects a No Objection Certificate (NOC) from the other beneficiaries and the beneficiary who collected the NOC can then avail of the off-grid solar pump with subsidy benefits.
 - In such cases Additional solar Pump can be approved for other beneficiary who wishes to install solar Pump on common well in ORC scheme.
3. If a beneficiary has an off-grid solar pump with subsidy benefits that lifts water from a river to their farm land, which is located at a height or distance, the discharge of the

solar pump may be reduced. In such cases, the beneficiary wants to install another solar pump to irrigate their farm land with full discharge.

- In such cases Additional solar Pump can be approved for beneficiary who wishes to install solar Pump at Suitable location in ORC scheme.
4. If the water head (the vertical distance between the water source and the farm land) is more, the discharge of the solar pump will be less. In such cases, the beneficiary wants to install another solar pump with higher discharge capacity to effectively irrigate their farm land
- In such cases Additional solar Pump can be approved for beneficiary who wishes to install another solar Pump in ORC scheme.
5. In case conventional pump beneficiary wishes to install another solar Pump, Additional solar Pump can be approved for beneficiary to install another solar Pump in ORC scheme.

For solar pump installation under the ORC scheme is sanctioned subject to following conditions :

1. **Empanelled Vendor:** Applicants must select an empanelled vendor for solar pumps from the ongoing tender.
2. **AMC Period:** The Annual Maintenance Contract (AMC) period will be 5 years from the commissioning of the solar pumps.
3. **Rates of Solar Pumps:** The rates of solar pumps will be published by MSEDCL (Maharashtra State Electricity Distribution Company Limited) on a yearly basis on their portal.

Pump cost without GST	:	A
Supervision charges 5 %	:	$B = A * 0.05$
GST applicable	:	$C = 13.8 \% \text{ of } (A + B)$
Total Pump Cost	:	$A + B + C$

Vendors will mandatorily provide CMC for a period of 5 years for SPWPS from the date of commissioning of the systems including insurance coverage for the installed systems against all eventualities including natural calamities and theft.

4. **Liquidated damages:** In case of any delay in the execution of the order or delay in maintenance beyond the stipulated time schedule decided including any extension permitted in writing, MSEDCL reserves the right to recover from the vendor a sum equivalent to 0.5 % of the value of the delayed SPWPS installation or on the unexecuted portion of the work for each week of the delay and part thereof subject

to a maximum of 10 % of the total value of SPWPS. The penalty for delay in maintenance will be limited to 10% of SPWPS at every instance.

5. **Remote Monitoring System** : Provision for remote monitoring unit for the pumps will be made by vendor in the pump controller using GSM/GPRS Gateway with Geo tagging and through an internal/external arrangement having following basic functions:
- a) Controller shall be assigned with a unique serial number and its live status shall be observed remotely on online portal through login credentials;
 - b) Live status shall indicate whether controller is ON/OFF
 - c) The parameter that is, the water output, water flow rate(calculated based on parameters),in fault condition; array input voltage/current and power shall be logged at an interval of 10min; and
 - d) Controller shall have a back up to store the data locally(at least for 1 year)

In view of above, It is requested to follow the instructions given in letter.


(D. R. Aundhekar)
Executive Director-III (Infra)

Copy s.w.rs to

1. Director (Projects)/(Operations)/(Commercial)/(Finance), MSEDCL, Mumbai

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